INTERIM ORDER
3RD QUARTER 2011
PROGRESS REPORT

ESTATE OF CHEMETCO, INC.
HARTFORD, ILLINOIS

November 4, 2011

ESTATE OF CHEMETCO
3754 CHEMETCO LANE
HARTFORD, ILLINOIS 62048

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SECTIONONE Compliance Actions

1.0 Actions Taken Toward Achieving Compliance with the Interim Order in 3rd Quarter 2011:

1.1 Pot Slag Work Plan for Sales of Facility Assets

1.1.1 Pot Slag Shipments

No shipments of Pot Slag were made during the 3rd Quarter 2011.

1.1.2 Pot Slag Shipments - Demobilization and Decontamination

No demobilization and decontamination activities associated with Pot Slag shipments occurred during the 3rd Quarter 2011.

1.1.3 Pot Slag Shipments - Waste Generation

Solid Waste: No Pot Slag waste was generated during the 3rd Quarter 2011.

Decon Debris: No Decon and/or Debris associated with Pot Slag shipments were generated during the 3rd Quarter 2011.

Wastewaters/Sludges: No wastewater/sludges associated with the management of Pot Slag were generated during the 3rd Quarter 2011.

1.2 Copper Furnace Cleanup Solids Work Plan for Sales of Facility Assets

1.2.1 Copper Furnace Cleanup Solids Shipments

During the 3rd Quarter 2011, the Estate of Chemetco sold approximately 22.52 metric tons (MT) of Copper Furnace Cleanup Solids (CFCS) to Aurubis AG in Lunen, Germany. The Estate loaded one 20 ft sea container on July 13, 2011. **Table 1** presents a summary of the CFCS that was sold and shipped during the 3rd Quarter 2011. **Table 1** is included in **Appendix A**.

1.2.2 Copper Furnace Cleanup Solids Shipments - Demobilization and Decontamination.

The Estate decontaminated the equipment and tools used for loading the Copper Furnace Solids during the 3rd Quarter 2011.

1.2.3 Copper Furnace Cleanup Solids Shipments - Waste Generation

Solid Waste: Small quantities of solid wastes were generated during the 3rd Quarter 2011. The solids were determined by generator knowledge to be "hazardous waste (D006, D008)." These wastes were temporarily placed in satellite container (i.e. steel hopper) that was located adjacent to the west loading dock of the Dome building. In mid September, the contents were transferred to a 40 cubic yard (CY) roll off that American Integrated Services (AIS) was using for disposal of hazardous waste during demolition activities. Once the 40 CY roll off becomes full, it will be sent off for disposal during the 4th Quarter 2011.

Decon Debris: Small quantities of Decon and/or Debris associated with the CFCS were generated during the 3rd Quarter 2011. The decon debris was determined by generator knowledge to be "hazardous waste (D006, D008)." These wastes were temporarily placed in satellite container (i.e. steel hopper) that is currently located adjacent to the west loading dock of the Dome building. In mid September, the contents were transferred to a 40 cubic yard (CY) roll off that American Integrated Services (AIS) was using for disposal of hazardous waste during demolition activities. Once the 40 CY roll off becomes full, it will be sent off for disposal during the 4th Quarter 2011.

Wastewaters/Sludges: Small quantities of wastewater/sludges associated with the management of CFCS were generated during the 3rd Quarter 2011. The Sludges were determined by generator knowledge to be "hazardous waste (D006, D008)." These wastes were transferred to the frac tank adjacent to the Tank House building for future disposal.

1.3 Scrap Metal Work Plan for Sales of Facility Assets

1.3.1 Scrap Metal Shipments

As previously stated in the 3rd Qtr 2010 Report, the Scrap Metal Work Plan was submitted to the Illinois Environmental Protection Agency (IEPA) on September 24, 2009 for approval, but was not implemented as submitted. Instead, all scrap metal shipments were made under the approved Demolition Work Plan and are described in Section 1.5.1. However, during the 1st Qtr, 2011, the Estate spoke with IEPA to

confirm work plan approval so that scrap metals not associated with the demolition activities could be sold and shipped separately.

During the 2nd Qtr 2011, the Estate resumed negotiations with existing buyers for the sale of Scrap Metals not associated with demolition activities. This included the sale of electric motors, crane parts, carbon steel ladles associated with the foundry, and other miscellaneous steel material. On September 27, 2011, the Estate sold approximately 53.4 tons of miscellaneous scrap metal for recycling to Alton Materials out of Alton, Illinois.

Table 2 presents a summary of scrap metal shipped during the 3rd Quarter 2011. **Table 3** presents a summary of all historical scrap metal material shipments to date. It should be noted that the tables includes scrap metal shipments associated with both; demolition scrap metal and non demolition scrap metal. **Tables 2** and **3** are included in **Appendix B.**

1.3.2 Scrap Metals - Demobilization and Decontamination

The non demolition scrap metal loaded and shipped by the Estate required little gross decontamination, if any since the scrap metal had been exposed to the outdoor weather during all of 2011.

1.3.3 Scrap Metals Shipments – Waste Generation

Solid Waste: No quantities of Solid Wastes were generated in the 3rd Quarter 2011 under the Scrap Metal Work Plan.

Decon Debris: No quantities Decon and/or Debris associated with the shipments of scrap metals were generated in the 3rd Quarter 2011 under the Scrap Metal Work Plan.

Wastewaters/Sludges: No quantities of wastewater/sludges associated with the management of Scrap Metals were generated in the 3rd Quarter 2011 under the Scrap Metal Work Plan.

All other decontamination and waste generation associated with demolition activities under the approved Demolition Work Plan are described in Section 1.5.1.

1.4 Demolition Work Plan for Sales of Facility Assets

On June 24, 2010, the Demolition Work Plan (Demo Plan) was approved by IEPA. American Integrated Services (AIS) is the demolition subcontractor for Industrial Asset Disposition (IAD) and as such, is performing all the demolition activities. Refer to **Figure 1** for location of the demolition areas.

As stated in the 2nd Quarter 2011 Report, on June 22, 2011 a Kick-Off Meeting was held between the IEPA, USEPA, AIS, the Estate, and Paradigm Minerals (Paradigm) on site to announce that demolition activities were to resume during the 3rd Qtr, 2011. AIS resumed demolition activities after the 4th of July, 2011. AIS estimated that it would take approximately 2 to 3 months to complete the work. IEPA requested a revised schedule for the completion of the demolition activities and remaining work. **Figure 2** presents AIS revised schedule for the demolition activities.

1.4.1 Demolition Work Scrap Metal Shipments

Scrap metal shipments associated with demolition activities were shipped out during the 3rd Quarter 2011. During the 3rd Quarter 2011, scrap metal was generated during the demolition of the foundry building and to a lesser extent, the AAF area.

The various types of scrap metal/steel included carbon steel beams, stainless steel and other miscellaneous steel. All the scrap metals shipments were made in accordance with the Demolition Work Plan. Approximate 554 tons of scrap steel/metal from the Foundry Building was cut, removed, loaded and shipped to Grossman Steel out of St. Louis. Also, approximately 97 tons of stainless steel duct system from the AAF area was cut, removed, loaded and shipped to Hi-Lite International out of California for International export.

Table 2 presents a summary of scrap metal shipped during the 3rd Quarter 2011. **Table 3** presents a summary of all historical scrap metal material shipments to date. It should be noted that the tables includes scrap metal shipments associated with both; demolition scrap metal and non demolition scrap metal. **Tables 2** and **3** are included in **Appendix B.**

1.4.2 Demolition Work Scrap Metals - Demobilization and Decontamination

As described in the approved Demolition Work Plan, AIS is performing the demolition and decontamination activities. The scrap metal was decontaminated by gross decontamination and removal of visible impacted material from the scrap metal by sweeping with brooms, and shaking, the scrap metal, if visible impacted material remained on the scrap metal, the scrap metal was decontaminated use a high pressure wash. The stainless steel was gross decontaminated and attempted to pressure wash it. It should be noted that some of the lead layer/film could not be completely removed. The spent decon water is stored in the two frac tanks located north east adjacent to the Tank House, and south adjacent to the Dome Building. In addition, AIS verbally requested, and received permission from IEPA to recycle the spent decon water from the frac tanks. The recycled decon water was to be used during the deconning of the interior of the foundry building, and during the deconning of the stainless steel.

1.4.3 Demolition Work Scrap Metals Shipments – Waste Generation

Solid Waste: Limited solid waste associated with the demolition activities was generated during the 3rd Quarter 2011. The solid waste was placed in a 40 CY roll off provided by Midwest Services and is awaiting disposal.

Decon Debris: Decon Debris associated with the demolition activities such as removal of scrap metals was generated during the 3rd Quarter 2011. Personal Protective Equipment (PPE) was placed in a 55-gallon drum used as a satellite container. Once the drum was full, the contents were transferred to a 40 CY roll off designated for disposal of hazardous material.

Wastewaters/Sludges: Wastewater/sludges associated with the management of metal scraps shipments were generated during the 3nd Quarter 2011. Wastewater/sludges associated with the management of Metal Scraps were generated during decontamination activities, and the spent water was stored in either of the two Baker Frac Tanks located on Site. One Baker Frac tank is located adjacent to the north side of the Tank House, and the second Baker Frac tank is located south, south east of the Dome Building, north of the Furnace Building. Wastewater associated with decontamination activities of the tank house was pumped to the Baker Frac Tank located adjacent to the Tank House. AIS verbally requested, and received permission from IEPA to recycle the spent decon water from the frac tanks. The recycled decon

water was to be used during the deconning of the interior of the foundry building, and during the deconning of the stainless steel.

1.5 Work Plans for RCRA Closures

1.5.1 Brick Shop Container Storage Area Closure Status

A "No Further Action" (NFA) letter was issued by IEPA on March 3, 2010, As such, no further action is required, and closure of the Brick Shop Container Storage Area is considered complete.

1.5.2 AAF Decontamination Area and Sump Closure Status

On June 24, 2010, a Demolition Work Plan (Demo Plan) was approved by IEPA. The AAF SWMU closure work was incorporated into the Demo Plan and closure work will be performed under the Demo Plan. Decontamination of the AAF area and sump closure was projected to be performed during the 3rd and 4th Quarter 2010. The sump area was pressured washed with water from the deep well, and the discharge pipe sealed with concrete. Because demolition activities were shut down by AIS during the 1st and 2nd Qtr 2011, final demolition activities have been projected back. AIS resumed demolition activities during the 3rd Quarter and the work should be completed during 4th Qtr 2011. The AAF Decontamination Area and Sump Area Closure Report will be completed within 60 days after completion of demolition activities.

1.5.3 Black Acid Tank Closure Status

The Black Acid Tank (located inside the southeast corner of the Tank House) is considered a RCRA Solid Waste Management Unit (SWMU). As such, the tank closure should follow RCRA closure guidelines. The Black Acid Tank closure was incorporated into the Demo Plan and the work was performed under the Demo Plan. During the 3rd and 4th Quarter 2010, the Black Acid Tank was removed from the Tank House cut in half, and moved east of the Tank House Building where it waits for disposal. The area within the Black Acid Tank was pressured washed and water was allowed to evaporate, remaining water was contained in the frac tank. Because demolition activities were shut down by AIS during the 1st and 2nd Qtr 2011, final demolition activities have been projected back. AIS resumed demolition activities

during the 3rd Quarter and the work should be completed during 4th Qtr 2011. The Black Acid Tank Closure Report will be completed within 60 days after completion of demolition activities.

1.5.4 Foundry Building, AAF System, and Tank House Demolition Work Plan (Demo Plan) Status

On June 24, 2010, the Demo Plan was approved by IEPA. The demolition work activities began in June during the 3rd Quarter 2010, shutdown in January during the 1st Quarter 2011, and work resumed in July during the 3rd Quarter 2011. To date, nearly all of the interior equipment and material inside the Tank House has been removed leaving only the building frame and ceiling and walls, and the tank house building has been deconned. The spent water was allowed to evaporate and/or placed in the frac tank. The Black Acid Tank that was located in the Tank House has been cut in half and will require disposal. Also, during the 3rd Quarter 2011, the asbestos abatement of the offices located in the Tank House and Foundry building were completed by Advance Environmental Services (AES), a subcontractor to AIS. . The fines recovered from the AAF area and parts of the Foundry Building have been moved to the fines building for possible future use. The siding from the east wall and electrical conduits has been removed from the Foundry Building. Also, the roof along the west portion of the foundry building was removed to allow access for a crane to remove the manifold above the foundry building. On September 12 and 13 Bollmeier Crane Company (subcontractor to AIS) and AIS removed the manifold above the foundry building in the presence of IEPA, media, and local city officials. Also five above ground storage tank (AST) are yet to be removed. One AST is located within the AAF and contains Sodium Hydroxide (NaOH); three ASTs are located adjacent to polishing pits, and one AST is located west of the Tank House. In addition, there have been discussions between AIS and Paradigm regarding the possibility of leaving the two above ground buildings that are located within the AAF area for potential use.

1.5.5 Furnace Removal Work Plan

Metallo appears to renew their interest on the furnaces, and negotiations between the Estate and Metallo have resumed. In accordance to the approved Demo Plan, the Furnaces will not be removed until all of the buildings in the Demo Plan have been

removed and decontaminated. AIS continue to dismantle the foundry building, while working around the furnaces. Any changes on the status of the furnaces will be conveyed to the IEPA and USEPA in a timely manner.

1.6 Waste Management

1.6.1 Hazardous Waste

Satellite Containers: At the end of the 3rd Quarter 2011 the Estate had two satellite containers on site:

- Two satellite containers are located along the west loading dock of the dome building and contain miscellaneous debris, plastic, and wood and paper. In mid September, the contents were transferred to a 40 cubic yard (CY) roll off that American Integrated Services (AIS) was using for disposal of hazardous waste during demolition activities. Once the 40 CY roll off becomes full, it will be sent off for disposal during the 4th Quarter 2011.

1.6.2 Hazardous Waste Containers – Awaiting Disposal

During the 3rd Qtr 2011, Hazardous Waste was generated during demolition activities. The hazardous waste was placed in appropriate containers and properly labeled. The following Hazardous Waste containers were generated: and are waiting disposal:

- Nine 40 Cubic Yard (CY) roll off containers of hazardous waste.
  The bins contain miscellaneous demolition debris (i.e. wood debris, plastic pipes, PPE, insulation, scrap metals, etc.) impacted with lead and cadmium and were generated from the Foundry Building. It should be noted that two of the nine roll offs contain Asbestos material that was removed during the abatement work. The asbestos was impacted with lead and cadmium dust.

- Two 20 CY roll off containers of hazardous waste. The bins contain primarily miscellaneous demolition debris (i.e. wood debris, plastic pipes, scrap metals, surface spills, etc.) impacted with lead and cadmium and were generated from the Foundry Building.

1.6.3 Hazardous Waste Disposal

The Estate disposed of the following Hazardous Waste during the 3rd Qtr 2011.

- One 55-gallon open top steel drum of "Hazardous Waste, Solids, NOS (PPE, - D006, D008). The drum contains PPE, decon pad from the deconning activities associated with the scrap metal and copper furnace solids shipments. The drum was picked up for disposal on August 11, 2011 of the 3rd Qtr 2011

A summary of hazardous waste disposed during the 3rd Quarter 2011 is presented in **Table 4**. A summary of all historical hazardous waste disposals to date is presented in **Table 5. Tables 4** and **5** are located in **Appendix C**.

1.6.4 Disposal of Non-Hazardous Waste(s)

The Estate generated non-hazardous waste (ex. empty paper and administrate office, bathrooms and lunch room) during the 3rd Quarter 2011. These wastes were disposed in the site's municipal waste dumpster serviced by Robert Sanders Waste Systems, Inc. at the Roxanna Landfill. During demolition activities, no non-hazardous waste was disposed of during the 3rd Qtr 2011.

A summary of all Non-Hazardous waste disposals is presented in **Table 6** located in **Appendix C**.

1.7 Operation and Maintenance Status

1.7.1 Operations and Maintenance Plans Status

On October 24, 2008, the Estate submitted to the State of Illinois the following required Operation and Maintenance Plans that are currently awaiting approval by IEPA:

(1) Fugitive Emissions Plan
(2) Stormwater Management Plan
(3) Groundwater Monitoring Plan
(4) Security Plan

1.7.2 Fugitive Emissions Plan

There was no evidence of reportable fugitive emissions during the 3rd Quarter 2011 on the Chemetco site.

1.7.3. Stormwater Management Plan

As required by the Estate's NPDES Permit IL0025747 Outfall #005, copies of the electronically Discharge Monitoring Reports and analytical results for the discharge of stormwater from the Stormwater Basin for the months of July, August, and September 2011. A summary of the 3rd Quarter 2011 analytical results are shown in **Table 7** located in **Appendix D**.

1.7.4 Groundwater Monitoring Plan

The Estate does not perform any groundwater monitoring.

1.7.5 Security Plan

On May 14, 2010, the Estate and IAD secured the services of Securitas to provide security for the site during after working hours (i.e. 7:00 pm to 3:00 am Monday thru Sunday). In addition, at the request of USEPA, the Estate submitted a "Security Plan and Action Items" on May 25, 2010. The objective of the Security Plan was to address areas of security deficiency, and securing areas of the site where trespassers could gain access to the interior of the site and conceivably pose a potential risk to human health.

Nearly all of the Action Items were completed during the 4th Quarter 2010, as such, the Estate requested, and USEPA agreed to reduce the weekly submittals to bi-weekly. During the 1st Qtr 2011, the Estate requested and USEPA conditionally agreed to reduce the bi-weekly submittals to monthly submittals starting the May 27, 2011. The initial submittal included a project forecast to describe when site will be restored to existing condition prior to demolition activities. A revised proposed schedule was submitted to USEPA on August 31, 2011. Copies of the 3rd Qtr 2011 monthly security reports are included in **Appendix E**.

SECTIONTWO Summary of Results

2.0 Summary of Results of Sampling, Tests, and Other Data Received in 3rd Quarter 2011:

2.1 Sales Materials Shipping Data. Copper Furnace Cleanup Solids (CFCS), scrap metal not associated with demolition activities, and scrap metal associated with demolition activities were sold and shipped during the 3rd Qtr 2011. Sale and shipping activities are described in Section 1. Summary **tables** (**1**, **2**, and **3**) of shipping data generated during the 3rd Quarter 2011 are included in **Appendix A** and **Appendix B**.

2.2 Stormwater Release Data

The Estate of Chemetco manages stormwater through the NPDES Permit IL0025747 Outfall #005 (Stormwater Retention Basin). Surface water samples are collected monthly. Analytical data of eDMR (Electronic Discharge Monitoring Report) are electronically submitted to IEPA via state's website. Hard copies of eDMR forms are included in **Appendix D.**

During the 3rd Quarter 2011, all parameters and constituents were below IEPA Effluent Water Quality Standards, except for Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), and pH. COD and pH results for July, August, and September were above the IEPA Effluent Water Quality Standards. TSS results for August and September exceeded IEPA Effluent Water Quality Standards. It should be noted that during August and September sampling event, the discharge flow was non existent.

Table 7 presents a summary of 3rd Quarter, 2011 analytical results and is included in **Appendix D.**

SECTIONTHREE Completed Deliverables

3.0 Identify Submitted and Completed Work Plans and Other Deliverables Required by Interim Order in 3rd Quarter 2011

3.1 The Estate submitted Work Plans and Other Deliverables as follows:

3.1.1 Interim Order 2nd Quarter 2011 Progress Report

The Estate submitted the 2nd Quarter 2011 Progress Report, Interim Order (Civil Case No. 00-670-DRH, 00-677-DRH (consolidated)), dated July 22, 2011 to Erin Rednour, IEPA and James Morgan, Attorney General's office as required by the Interim Order.

3.1.2 Demolition Work Plan

The Demolition Work Plan was submitted to IEPA on May 6, 2010. The Demolition Work Plan was approved by IEPA on June 24, 2010. The demolition of the Tank House building has been nearly completed. The cut Black Acid Tank is currently located near the east of the Tank House waiting for disposal. Demolition of the AAF Area has been nearly completed. Most of the east wall of the Foundry Building has been removed, except the north eastern portion. Asbestos abatement work has been completed in the foundry building and tank house offices. On September 12 and 13, 2011, the overhead manifold was removed from the Foundry Building. Demolition of approximate 40% of the foundry building has been completed.

3.1.3 Scrubber Sludge Work Plan

On October 14, 2010, The Estate of Chemetco and Paradigm Minerals submitted a Work Plan to IEPA requesting approval to sell Scrubber Sludge Material that is currently stored in the DIS building and Receiving Building. The Estate received deficiency comments from IEPA on November 4, 2010. The Estate addressed the comments and a revised Scrubber Sludge Work Plan was submitted to IEPA on November 24, 2010. The Estate and Paradigm received conditional approval from IEPA on February 9, 2011. During the 2nd Qtr 2011, the Estate and Paradigm negotiated the sale of the Scrubber Sludge mixed with fines (approximately 3,000 to 3,500 mt) to H&H Metals out of New York. On April 29, 2011 the Estate submitted Notification of Winning Bidder and Signed Contract to IEPA. On May 10, 2011, the

SECTIONTHREE Completed Deliverables

Estate met on site with IEPA to discuss proposed changes to approved work plan. On the same day, the Estate submitted electronically via email an Addendum to the Work Plan describing proposed changes in order to properly load the material in sea containers. On June 2, 2011, the Estate received addendum approval to sell approximately 3000-3500 dry mt of Scrubber Sludge mixed with fines to H&H Metals, for Jiangxi Chenfei Cooper Industry Co, Ltd located in China. On July 26, 2001, the Estate and Paradigm received conditional approval of addendum to Scrubber Sludge Work Plan. Due to the volatile market, no scrubber sludge was shipped during the 3rd Quarter 2011.

3.2 Completed Work Plans and Other Deliverables

3.2.1 Cupro Work Plan

The Cupro Work Plan was completed in the 2nd and 3rd Quarter 2010. All of the Cupro Material has been sold, and no further shipment of saleable Cupro material is expected. COMPLETED.

3.2.2 Caustic Tank Work Plan

The Caustic Tank Work Plan was completed in the 4th Qtr 2010. The Caustic Tanks was sold to Tank Trailer Cleaning (TTC) and removed from the Site and no additional work associated with the Caustic Tank is expected. COMPLETED.

3.2.2 Other Deliverables - Contained herein are copies of:

1. Summary of Copper Furnace Cleanup Solid shipments during 3rd Quarter 2011, **Table 1** located in **Appendix A.**
2. Summary of 3rd Quarter 2011 and historical Scrap Metal shipments, **Tables 2** and **3** located in **Appendix B.**
3. Summary of 3rd Quarter 2011 and historical Hazardous Wastes and Non-Hazardous disposal during the 3rd Quarter 2011, **Tables 4, 5** and **6** located in **Appendix C.**
4. Stormwater Discharge Monitoring Reports, and **Table 7** located in **Appendix D.**
5. Monthly Security Plan and Action Items Reports, located in **Appendix E.**

SECTIONFOUR Scheduled Actions for 4th Qtr 2011

4.0 Describe Actions Scheduled for 4th Quarter 2011 and Information Related to Progress.

4.1 Shipments Sales of Facility Assets

4.1.1 Pot Slag Shipments

Approximately less than 40 mt remain on site. The Estate expects to sell and ship the remaining Pot Slag Material in the foreseeable future.

4.1.2 Copper Furnace Cleanup Solids Shipments

During the demolition of the foundry building, additional CFCS material was accumulated and temporarily stored in the northwest corner of the foundry building. The Estate plans to assay the CFCS and prepare an addendum to the approved CFCS work plan to sell and ship the remaining CFCS during the 4th Qtr 2011.

4.1.3 Scrubber Sludge Shipments

The Estate submitted a Scrubber Sludge Work Plan on November 24, 2010 to IEPA for approval of sale of Scrubber Sludge stored in the DIS building and Receiving building. IEPA conditionally approved the Scrubber Sludge Work Plan on February 9, 2011. The Estate negotiated the sale of the SCM with potential buyers and is expected to begin shipping during the 3rd Qtr 2011. During the 2nd Qtr 2011, a notification letter was sent to IEPA and documents identifying the buyer, name and place of final destination of material will be submitted to IEPA for approval as required under the conditionally approved letter dated February 9, 2011. On June 2, 2011, the Estate received addendum approval to sell approximately 3,000-3,500 dry mt of Scrubber Sludge mixed with fines to H&H Metals, for Jiangxi Chenfei Cooper Industry Co, Ltd located in China.

Due to the ongoing and uncertain volatile turmoil in the commodity market, no Scrubber Sludge was shipped during the 3rd Qtr 2011. However, the commodity appears to be rebounding, as such, the Estate and Paradigm plan to begin loading and shipping the scrubber sludge during the 4th Qtr 2011.

SECTIONFOUR Scheduled Actions for 4th Qtr 2011

4.2 Foundry Building, AAF System, and Tank House Demolition Work Plan (Demo Plan)

The Demolition Plan was approved by IEPA on June 24, 2010. Preliminary site activities began during June of the 3rd Quarter 2010. Demolition activities include decontamination and demolition of the Foundry Building, the AAF System, and the interior of the east end of the Tank House. The demolition work started in June of 3rd Quarter 2010.

On January 19, 2011 of the 2nd Qtr 2011, AIS informed IEPA and USEPA that demolition activities would be shut down during the winter months due to inclement whether. Demolitions activities were shutdown through the end of the 2nd Qtr 2011.

Demolition Activities resumed on July of the 3rd Qtr 2011. AIS is targeting mid 4th Qtr 2011 for completion of all demolition work.

4.3 Furnace Removal Work Plan

Metallo appears to renew their interest on the 3-TBRC furnaces located inside the Foundry Building, and negotiations between the Estate and Metallo have resumed. As such, in accordance to the approved Demo Plan, the Furnaces will not be removed until all of the buildings in the Demo Plan have been removed and decontaminated. Any changes on the status of the furnaces will be conveyed to the IEPA and USEPA in a timely manner.

4.4 Pilot Plant Treatability Study

On January 8, 2010, AMEC Geomatrix, on behalf of IAD submitted to, IEPA a memo (Subject: Chemetco – Pilot Plant Treatability Study Processing of Metal Bearing Materials). IEPA, approved with "conditions." the study in a letter to IAD dated February 5, 2010.

The pilot plant continues to operate on a trial run basis. Bi-weekly Project Status Reports were submitted to IEPA and USEPA by IAD, and AMEC Geomatrix on behalf of IAD. On December 13, 2010, Bi-weekly Project Status Reports were submitted only by IAD.

During the 1st Qtr 2011, Paradigm submitted to IEPA and USEPA a Work Plan titled "Scrubber Sludge and Slag Work Plan" dated March 4, 2011. Paradigm continues to

SECTIONFOUR Scheduled Actions for 4th Qtr 2011

work on additional deliverables. During the June 22, 2011 Demolition Activities Kick-off Meeting, Paradigm personnel, informed the IEPA that an Interim Pilot Plant Report could be submitted to IEPA and USEPA during the 3rd Qtr 2011.

On August 15, 2011, Paradigm submitted a report titled "Supplemental Pilot Plant Summary Report" to IEPA and USEPA. Paradigm is planning to request a meeting with IEPA and USEPA to discuss the contents of the report and hope to move forward towards obtaining approval to begin processing the Metal Bearing Material (MBM).

SECTIONFIVE **Completed Action items**

5.0 Percentage of Completion, Delays, and Mitigation

5.1 Shipments and Sales of Facility Assets

5.1.1 Cupro Shipments

Shipment of all saleable Cupro is 100% complete. The Estate shipped approximately 2,242 mt of Cupro. COMPLETED.

5.1.2 Pot Slag Shipments

Approximately 40-80 mt of Pot Slag remains on site and will be sold in the foreseeable future, and probably after the completion of the demolition activities.

5.1.3 Copper Furnace Cleanup Solids Shipments

During the 3rd Quarter 2011, approximately 20 mt of Copper Furnace Cleanup Solids was sold and shipped to Aurubis AG.

5.1.4 Caustic Tank Work Plan

TTC removed the NaOH and the Poly AST during the 4th Quarter 2010 in accordance with the approved work plan. The tank was properly deconned by TTC using hot clean water brought from their facility, after deconning and removal of the water, the AST was loaded and transported to their facility in East St. Louis for their use. The Caustic Tank was removed and the work is deemed COMPLETED.

5.2 Work Plans for RCRA Closures

5.2.1 Brick Shop Container Storage Area

100% complete and requires No Further Action and is considered CLOSED.

5.2.2 AAF Decontamination Area and Sump

The work has been incorporated into the approved Demolition Plan and will be completed as part of the demo work. A closure report will be submitted within 60 days of completion of the demo work.

5.2.3 Black Acid Tank

The work has been incorporated into the approved Demolition Plan and will be completed as part of the demo work. A closure report will be submitted within 60 days of completion of the demo work.

SECTIONSIX Modifications

6.0 Modifications to Work Plans or Schedules Proposed or Approved by IEPA:

The Interim Order was set to expire on September 16, 2011. The Estate, Paradigm and IEPA were able to agree and obtain an extension to the Interim Order till November 30, 2011 in order to complete the Demolition Work. In addition IEPA is aware that an additional extension may be necessary to complete all of the work under the already approved work plans.

6.1 Work Plan Modifications

6.1.1 Pot Slag Work Plan

Notification and/or revisions to the current Pot Slag Work Plan will be submitted to IEPA and USEPA concerning future selling of the remaining Pot Slag on Site.

6.1.2 Copper Furnace Cleanup Solids Work Plan

An addendum to the Copper Furnace Cleanup Solids Work Plan was made during the 2nd Quarter 2011 to load the CFCS material from a different location as originally described. The addendum described using the west loading dock adjacent to the dome building because a portable loading ramp was not available. Notification and/or addendum to the current CFCS Work Plan will be submitted to IEPA and USEPA concerning future selling of the remaining CFCS on Site. During the demolition of the foundry building, additional CFCS material was accumulated and temporarily stored in the northwest corner of the foundry building. The Estate plans to assay the CFCS and prepare an addendum to the approved CFCS work plan to sell and ship the remaining CFCS during the 4th Qtr 2011.

6.1.3 AAF Decontamination Area and Sump

RCRA Closure Plan has been incorporated into the Demo Plan. A RCRA Closure Report will be submitted within 60 days of completion of the demo work.

6.1.4 Black Acid Tank

RCRA Closure Plan has been incorporated into the Demo Plan. A RCRA Closure Report will be submitted within 60 days of completion of the demolition work.

6.1.5 Scrubber Sludge Work Plan

During the 2nd Qtr 2011, the Estate and Paradigm negotiated the sale of the Scrubber Sludge and Scrubber Sludge mixed with fines to H&H Metals out of New York. On April 29, 2011 the Estate submitted Notification of Winning Bidder and Signed Contract. On May 10, 2011, the Estate met on site with IEPA to discuss proposed changes to approved work plan. On the same day, the Estate submitted electronically via email an Addendum to the Work Plan describing proposed changes in order to properly load the material in sea containers.

On June 2, 2011, the Estate received approval to sell approximately 3,000-3,500 dry MT of Scrubber Sludge mixed with fines to H&H Metals, for Jiangxi Chenfei Cooper Industry Co, Ltd located in China. Due to changes in international regulations, the scrubber sludge was required to be shipped in 1MT supersacks. Because the Estate's bagging mechanism was destroyed, Fred Weber Inc. (FW) was subcontracted by Paradigm to assist with the loading of the supersacks. On July 18, 2011 an Addendum depicting the supersack loading activities was submitted to IEPA. On July 26, 2011 the Estate of Chemetco received from IEPA conditional approval to proceed with the loading of Scrubber Sludge in 1MT Supersacks.

6.2 Schedule Modifications

On June 22, 2011 a Kick-Off Meeting was held at the site for AIS to inform the IEPA and USEPA their intention to resume demolition activities during the 3rd Qtr, 2011. AIS estimated that it will take approximately 2 to 3 months to complete the work. IEPA and USEPA requested that a revised work schedule. **Figure 2** presents AIS revised demolition work schedule.

6.2.1 Pot Slag Work Plan

Approximately 20 mt remain to be shipped. The Estate will negotiate with potential purchasors, all of whom have previously purchased Pot Slag. After notification and/or revisions to the Work Plan, the remaining Pot Slag will be sold in the foreseeable future.

6.1.5 Scrubber Sludge Work Plan

During the 2nd Qtr 2011, the Estate and Paradigm negotiated the sale of the Scrubber Sludge and Scrubber Sludge mixed with fines to H&H Metals out of New York. On April 29, 2011 the Estate submitted Notification of Winning Bidder and Signed Contract. On May 10, 2011, the Estate met on site with IEPA to discuss proposed changes to approved work plan. On the same day, the Estate submitted electronically via email an Addendum to the Work Plan describing proposed changes in order to properly load the material in sea containers.

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6.2.1 Pot Slag Work Plan

Approximately 20 mt remain to be shipped. The Estate will negotiate with potential purchasors, all of whom have previously purchased Pot Slag. After notification and/or revisions to the Work Plan, the remaining Pot Slag will be sold in the foreseeable future.

6.2.2 Copper Furnace Cleanup Solids Work Plan

The Estate expects to ship the CFCS to Aurubis AG during the 3rd Qtr 2011. Shipping of the remaining CFCS will be worked around the demolition activities.

6.2.3 Pilot Plant Treatability Study

The Pilot Plant Treatability Study work continues to operate on a trial run basis. At this time, there is no firm date as to completion of process development work. During the 2nd Qtr 2011, Paradigm submitted a work plan titled "Scrubber Sludge and Slag Process Plan" dated March 4, 2011. Paradigm continues to work on additional deliverables. During the June 22, 2011 Demolition Activities Kick-off Meeting, Paradigm personnel, informed the IEPA that an Interim Pilot Plant Report could be submitted to IEPA and USEPA during the 3rd Qtr 2011. On August 15, 2011, Paradigm submitted a report titled "Supplemental Pilot Plant Summary Report" to IEPA and USEPA.

6.2.4 Demo Plan

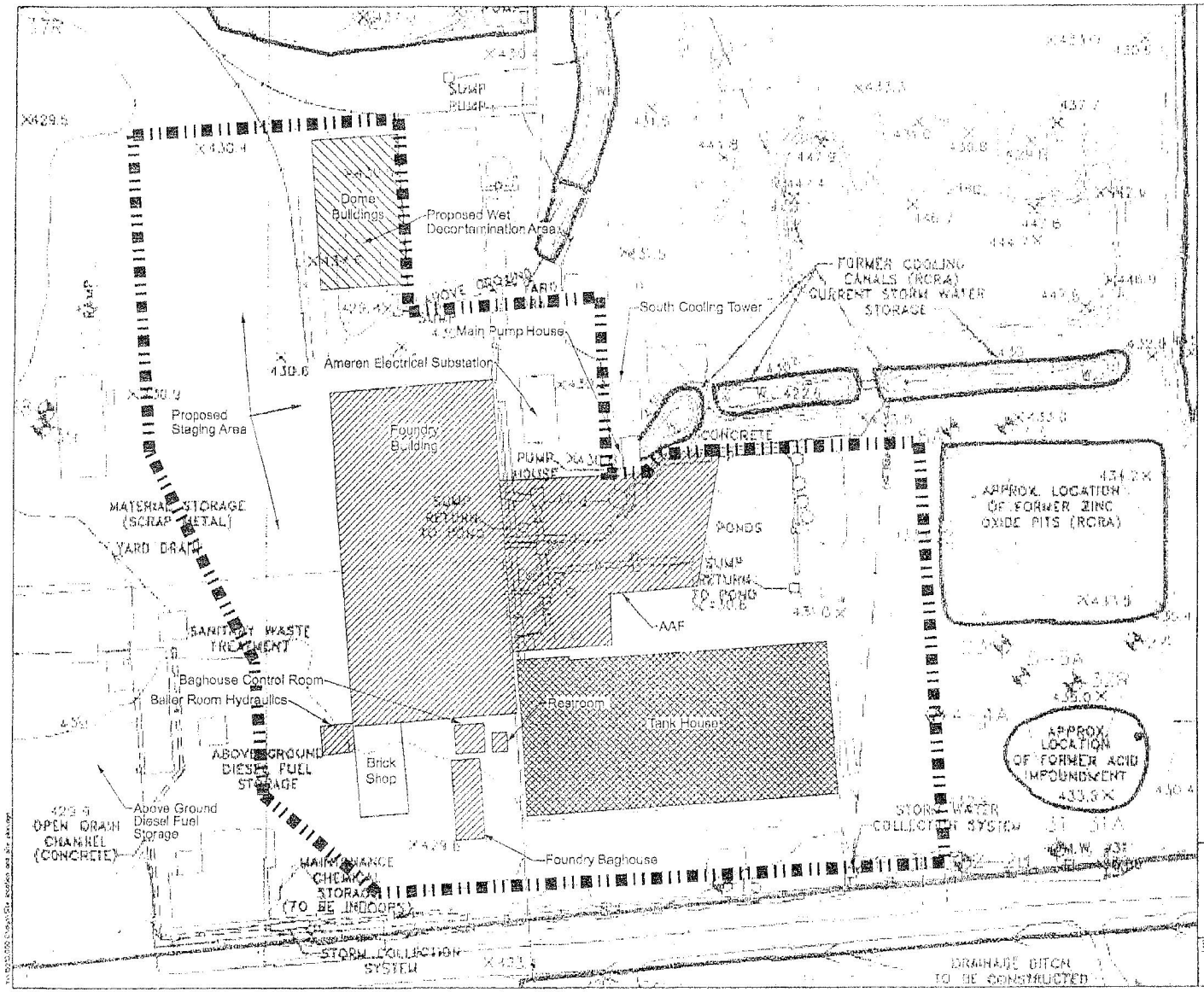
Final Demo Work Plan was approved by IEPA on June 24, 2010. Demolition work began in June 3rd Quarter 2010. Demolition work in the Tank House Building has been completed. In addition, the majority of the work in the AAF area has been completed and work has begun along the eastern sidewall of the foundry building. The main power was shut off on December 3, 2010 to complete the work in the AFF area and begin work in the foundry building. Temporary generators were brought it to provide temporary power. Due to inclement whether, AIS informed IEPA and USEPA their intention to shutdown demolition activities. . No Demolition activities occurred between January 19, 2011 of the 1st Qtr 2011 and June 30, 2011 of the 2nd Qtr 2011.

On June 22, 2011 a Kick-Off Meeting was held at the site for AIS to inform the IEPA and USEPA their intention to resume demolition activities in July during the 3rd Qtr, 2011. AIS estimated that it will take approximately 2 to 3 months to complete the work. IEPA and USEPA requested that a revised work schedule be provided. The revised schedule is included as Figure 2 of the 3rd Quarter 2011 Progress Report.

SECTIONSIX **Modifications**

Demolition activities resumed after July 4, 2011. Adjustments to the schedule may be warranted due to inclement weather conditions.

Figure

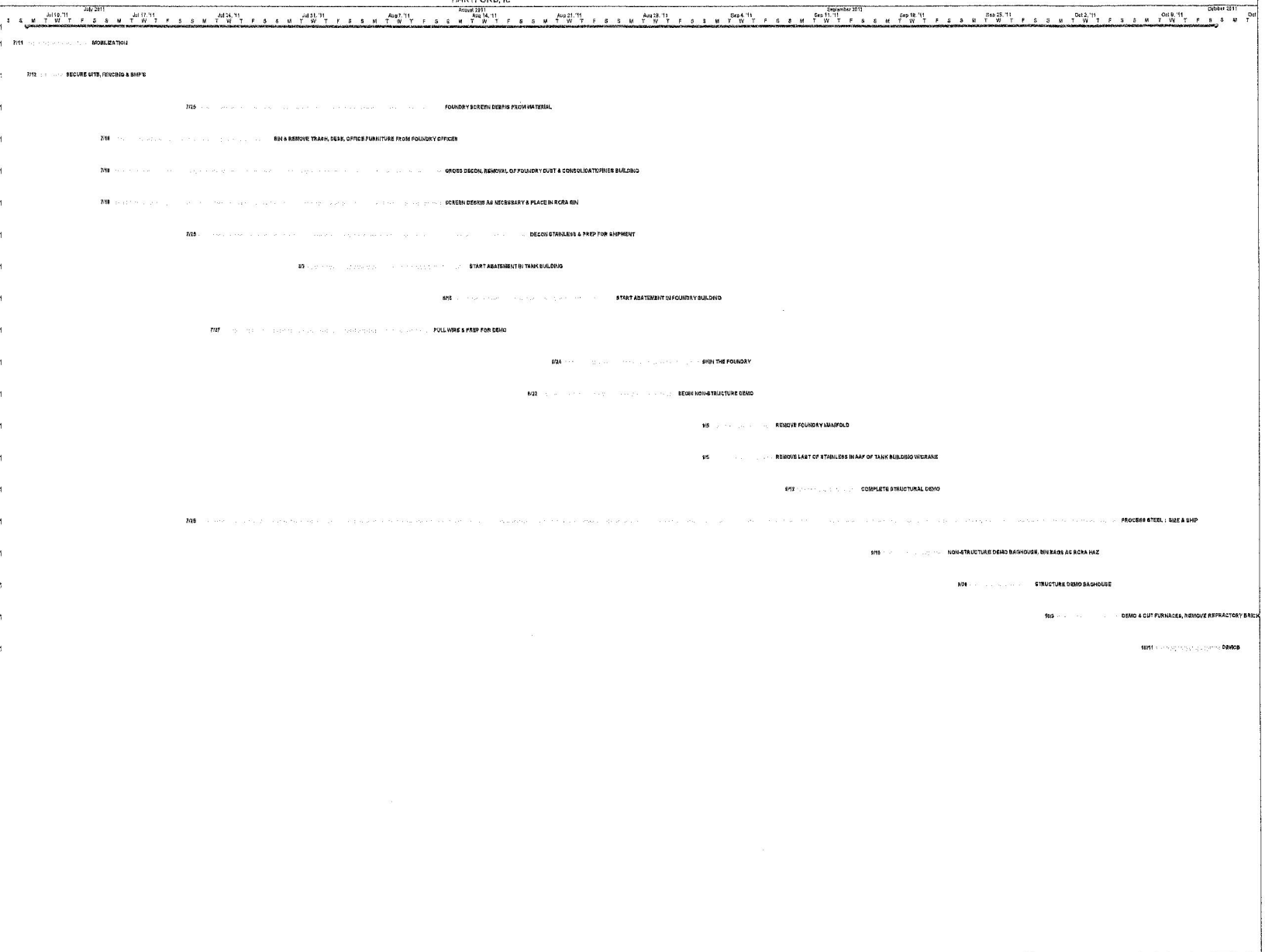


PROPOSED DEMOLITION PLAN
Former Chemetco Site
3754 Chemetco Lane
Hartford, Illinois

By: pah	Date:05/06/10	Project No: 15210
AMEC Geomatrix		Figure 1

CHEMETCO DEMOLITION & DECONTAMINATION
3754 CHEMETCO LANE
HARTFORD, IL

ID	Task Name	Duration	Start	Finish
1	**CHEMETCO DECON & DEMO**	84 days	Mon 7/11/11	Sat 10/15/11
2	MOBILIZATION	5 days	Mon 7/11/11	Fri 7/15/11
3	SECURE SITE, FENCING & BMP'S	2 days	Tue 7/12/11	Wed 7/13/11
4	FOUNDRY SCREEN DEBRIS FROM MATERIAL	18 days	Mon 7/25/11	Sat 8/13/11
5	BIN & REMOVE TRASH, DESK, OFFICE FURNITURE FROM FOUNDRY OFFICES	12 days	Mon 7/18/11	Sat 7/30/11
6	GROSS DECON, REMOVAL OF FOUNDRY DUST & CONSOLIDATE/FINES BUILDING	24 days	Mon 7/18/11	Sat 8/13/11
7	SCREEN DEBRIS AS NECESSARY & PLACE IN RCRA BIN	24 days	Mon 7/18/11	Sat 8/13/11
8	DECON STAINLESS & PREP FOR SHIPMENT	24 days	Mon 7/25/11	Sat 8/20/11
9	START ABATEMENT IN TANK BUILDING	11 days	Wed 8/3/11	Mon 8/15/11
10	START ABATEMENT IN FOUNDRY BUILDING	12 days	Mon 8/15/11	Sat 8/27/11
11	PULL WIRE & PREP FOR DEMO	15 days	Wed 7/27/11	Fri 8/12/11
12	SKIN THE FOUNDRY	10 days	Wed 8/24/11	Sat 9/3/11
13	BEGIN NON-STRUCTURE DEMO	10 days	Mon 8/22/11	Thu 9/1/11
14	REMOVE FOUNDRY MANIFOLD	5 days	Mon 9/5/11	Fri 9/9/11
15	REMOVE LAST OF STAINLESS IN AAF OF TANK BUILDING W/CRANE	5 days	Mon 9/5/11	Fri 9/9/11
16	COMPLETE STRUCTURAL DEMO	5 days	Mon 9/12/11	Fri 9/16/11
17	PROCESS STEEL : SIZE & SHIP	65 days	Mon 7/25/11	Fri 10/7/11
18	NON-STRUCTURE DEMO BAGHOUSE, BIN BAGS AS RCRA HAZ	5 days	Mon 9/19/11	Fri 9/23/11
19	STRUCTURE DEMO BAGHOUSE	5 days	Mon 9/26/11	Fri 9/30/11
20	DEMO & CUT FURNACES, REMOVE REFRACTORY BRICK	5 days	Mon 10/3/11	Fri 10/7/11
21	DEMOB	5 days	Tue 10/11/11	Sat 10/15/11



Project: Chemetco Schedule Rev8
Date: Tue 7/19/11

Task · Critical Task · Milestone · Summary · Rolled Up Task · Rolled Up Critical Task · Rolled Up Milestone · Rolled Up Progress · Split · External Tasks · Project Summary · Group By Summary · Inactive Task · Inactive Milestone · Inactive Summary · Manual Task · Duration-only · Manual Summary Rollup · Manual Summary · Start-only · Finish-only · Progress · Deadline

APPENDIX A Copper Furnace Cleanup Solids Shipments

TABLE 1
Summary of Copper Furnace Cleanup Solids Shipments
3rd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

Number of Shipments	Bill of Lading Number	Container (CTU) #	Date Container Loaded	Approximate Weight in lbs	Approximate Weight in tons	Approximate Weight in kg	Approximate Weight in mt
1	49589	FCIU 430556-4	7/13/2011	45,040	22.52	20,430	20.43
Total Copper Furnace Solids Shipped in 3rd Qtr 2011:				**45,040**	**22.52**	**20,430**	**20.43**

APPENDIX B — Scrap Metal Shipments

TABLE 2
Summary Of Scrap Metal Shipments
3rd Quarter 2011 Progress Report
Estate Of Chemetco
Hartford, Illinois

	Number of Shipments	Date of Shipment	Bill of Lading Number	Iron and Steel Sold to Grossman Steel (2)	Alton Materials (2)	Tons of Aluminum Metal Sold to Wallach Trading Company (2)	Stainless Steel Sold to Hi-Light International (2)	Motors Sold to Interco Trading Company (2)	Misc. Copper Sold to Wallach Trading Company (2)	Pot Slag Ladles sold to Harsco Metals (3) B	Misc. Motors and Crane Parts Sold to Casey Equipment (3) C	Misc, tank and clarifier sold to Tank Trailer Cleaning (3)
3rd Quarter 2011	71	August 1, 2011	49590	13.9								
	72	August 1, 2011	49591	10.04								
	73	August 5, 2011	49592	15.12								
	74	August 9, 2011	49593	11.64								
	75	August 12, 2011	HDMU 644809-9	---	---	---	19.20	---	---	---	---	---
	76	August 16, 2011	TCNU 740060-0	---	---	---	19.29	---	---	---	---	---
	77	August 19, 2011	49594	16.35								
	78	August 19, 2011	49595	13.48								
	79	August 25, 2011	HDMU 633298-2	---	---	---	19.36	---	---	---	---	---
	80	August 30, 2011	TNCU 860015-7	---	---	---	19.55	---	---	---	---	---
	81	August 30, 2011	49596	14.23								
	82	August 30, 2011	49597	6.61								
	83	September 9, 2011	49598	9.36								
	84	September 9, 2011	49599	7.08								
	85	September 9, 2011	49600	5.54								
	86	September 13, 2011	49601	5.63								
	87	September 13, 2011	49602	7.29								
	88	September 15, 2011	49603	13.92								
	89	September 15, 2011	49604	13.58								
	90	September 16, 2011	49606	11.88								
	91	September 16, 2011	49607	12.12								
	92	September 19, 2011	49608	12.77								
	93	September 19, 2011	49609	10.36								
	94	September 19, 2011	49610	13.75								
	95	September 19, 2011	49611	11.56								
	96	September 19, 2011	49612	11.54								
	97	September 20, 2011	49613	10.76								
	98	September 20, 2011	49614	11.73								
	99	September 20, 2011	49615	9.78								
	100	September 20, 2011	49616	12.84								
	101	September 21, 2011	HDMU 740565-1	---	---	---	19.63	---	---	---	---	---
	102	September 23, 2011	49617	13.12								
	103	September 23, 2011	49618	10.63								
	104	September 23, 2011	49619	7.33								
	105	September 27, 2011	49622	11.45								
	106	September 27, 2011	49623	15.84								
	107	September 27, 2011	49625	9.68								
	108	September 27, 2011	49626	15.16								
	109	September 27, 2011	49627	10.14								
	110	September 27, 2011	49628	9.04								
	111	September 27, 2011	49629	13.80								
	112	September 27, 2011	49630	10.28								
	113	September 27, 2011	49620	---	19.03	---	---	---	---	---	---	---
	114	September 27, 2011	49621	---	16.71	---	---	---	---	---	---	---
	115	September 27, 2011	49624	---	17.71	---	---	---	---	---	---	---
	116	September 28, 2011	49631	12.77								
	117	September 28, 2011	49632	12.63								
	118	September 28, 2011	49633	10.96								
	119	September 28, 2011	49634	8.07								
	120	September 28, 2011	49635	13.06								
	121	September 29, 2011	49636	11.16								
	122	September 30, 2011	49637	13.47								
	123	September 30, 2011	49638	15.78								
	124	September 30, 2011	49639	13.30								
	125	September 30, 2011	49640	11.74								
	126	September 30, 2011	49641	12.15								
			TOTAL TONS	554.41	53.46	0.00	97.03	0.00	0.00	0.00	0.00	0.00

Note:
(1) Short Ton = 2000 lb
(2) Gross Ton = 2240 lb
(3) = Material sold under the Scrap Metal Work Plan
A= Aboveground Steel-Sand Storage Tank
B=Pot Slag Ladles (total of 3 ladles)
C= Crane equipment parts, electric motors, electric cabinets, resistor brakes, Crane Block parts
D= Two steel clarifier tanks
Steel Material sold as bulk and not as tonnage cost
NA = Not Applicable

TABLE 3
Summary Of Historical Scrap Metal Shipments
3rd Quarter 2011 Progress Report
Estate Of Chemetco
Hartford, Illinois

	Number of Shipments	Date of Shipment	Bill of Lading Number	Tons of Iron and Steel Sold to Grossman Steel (1)	Tons of Lead Metal Sold to Doe Run (1)	Tons of Aluminum Metal Sold to Wallach Trading Company (1)	Tons of Stainless Steel Sold to Hi-Light International (2)	Misc. Copper Sold to Wallach Trading Company (2)	Motors Sold to Interco Trading Company (2)	Pot Slag Ladles sold to Harsco Metals (3)	Misc. Motors and Crane Parts Sold to Casey Equipment (3)	Misc, tank and clarifier sold to Tank Trailer Cleaning (3)
3rd Quarter 2010	1	September 13, 2010	49502	16.05				----	----	NA	NA	NA
	2	September 13, 2010	49503	17.04				----	----	NA	NA	NA
	3	September 13, 2010	49504	9.28				----	----	NA	NA	NA
	4	September 13, 2010	49505	16.43				----	----	NA	NA	NA
	5	September 13, 2010	49506	7.17				----	----	NA	NA	NA
	6	September 13, 2010	49507	17.01				----	----	NA	NA	NA
	7	September 14, 2010	49508	12.05				----	----	NA	NA	NA
	8	September 14, 2010	49509	16.35				----	----	NA	NA	NA
	9	September 14, 2010	49510	11.15				----	----	NA	NA	NA
	10	September 14, 2010	49511	13.29				----	----	NA	NA	NA
	11	September 14, 2010	49512	16.53				----	----	NA	NA	NA
	12	September 14, 2010	49513	13.83				----	----	NA	NA	NA
	13	September 14, 2010	49514	15.52				----	----	NA	NA	NA
	14	September 14, 2010	49515	16.61				----	----	NA	NA	NA
	15	September 15, 2010	49516	13.86				----	----	NA	NA	NA
	16	September 15, 2010	49517	14.88				----	----	NA	NA	NA
	17	September 20, 2010	49518	---	22.20			----	----	NA	NA	NA
	18	September 20, 2010	49519	---	21.89			----	----	NA	NA	NA
	19	September 22, 2010	49520	8.04				----	----	NA	NA	NA
	20	September 22, 2010	49521	7.21				----	----	NA	NA	NA
	21	September 22, 2010	49522	---	21.56			----	----	NA	NA	NA
	22	September 22, 2010	49523	7.29				----	----	NA	NA	NA
	23	September 22, 2010	49524	7.54				----	----	NA	NA	NA
	24	September 22, 2010	49525	12.42				----	----	NA	NA	NA
	25	September 23, 2010	49526	14.81				----	----	NA	NA	NA
	26	September 27, 2010	49527	9.4				----	----	NA	NA	NA
			TOTAL TONS	**293.8**	**65.7**					NA	NA	NA
4th Quarter 2010	27	October 5, 2010	49529	12.47				----	----	NA	NA	NA
	28	October 7, 2010	49530	11.86				----	----	NA	NA	NA
	29	October 11, 2010	49531	12.19				----	----	NA	NA	NA
	30	October 13, 2010	49532	7.97				----	----	NA	NA	NA
	31	October 14, 2010	49534	10.06				----	----	NA	NA	NA
	32	October 14, 2010	49535	13.96				----	----	NA	NA	NA
	33	October 15, 2010	49536	11.86				----	----	NA	NA	NA
	34	October 18, 2010	49537	11.72				----	----	NA	NA	NA
	35	October 19, 2010	49538	10.70				----	----	NA	NA	NA
	36	October 19, 2010	49539	12.47				----	----	NA	NA	NA
	37	November 2, 2010	49554	8.96				----	----	NA	NA	NA
	38	November 2, 2010	49555	13.40				----	----	NA	NA	NA
	39	November 3, 2010	49556	9.09				----	----	NA	NA	NA
	40	November 8, 2010	49557	13.48				----	----	NA	NA	NA
	41	November 8, 2010	49558	---	---	18.52		----	----	NA	NA	NA
	42	November 8, 2010	49559	12.46				----	----	NA	NA	NA
	43	November 10, 2010	49560	13.92				----	----	NA	NA	NA
	44	November 10, 2010	49561	9.83				----	----	NA	NA	NA
	45	November 11, 2010	49562	10.28				----	----	NA	NA	NA
	46	November 15, 2010	49563	12.34				----	----	NA	NA	NA
	47	November 15, 2010	49564	12.39				----	----	NA	NA	NA
	48	November 17, 2010	49565	11.98				----	----	NA	NA	NA
	49	November 17, 2010	49566	10.79				----	----	NA	NA	NA
	50	December 1, 2010	49567	16.55				----	----	NA	NA	NA
	51	December 2, 2010	49568	15.55				----	----	NA	NA	NA
	52	December 9, 2010	49569	6.46				----	----	NA	NA	NA
	53	December 10, 2010	49570	8.22				----	----	NA	NA	NA
	54	December 14, 2010	FCIU 894056-8				21.82	----	----	NA	NA	NA
			TOTAL TONS	**300.96**	0	**18.52**	**21.82**			NA	NA	NA

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3rd Quarter 2011 Progress Report
Estate Of Chemetco
Hartford, Illinois

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1st Quarter 2011	55	January 6, 2011	49571	15.29						NA	NA	NA
	56	January 7, 2011	CAFU 802051-4				21.96			NA	NA	NA
	57	January 10, 2011	CAIU 800920-1				21.72			NA	NA	NA
	58	January 12, 2011	DFSU 620017-0				21.53			NA	NA	NA
	59	January 13, 2011	49572	9.79						NA	NA	NA
	60	January 17, 2011	CAIU 851224-2				21.12			NA	NA	NA
	61	January 17, 2011	49573	9.09						NA	NA	NA
	62	January 19, 2011	49574					14.56		NA	NA	NA
	63	February 17, 2011	49575						8.74	NA	NA	NA
			TOTAL TONS	**34.17**	**0.00**	**0.00**	**86.33**	**14.56**	**8.74**	NA	NA	NA
2nd Quarter 2011	64	April 11, 2011	NA									A
	65	April 11, 2011	47175							23.44 (B)	---	
	66	April 11, 2011	47176							24.11 (B)	---	
	67	April 11, 2011	47177							20.09 (B)	---	
	68	May 4, 2011	49576							---	13.08 (C)	
	69	May 11, 2011	49577							---	17.88 (C)	
	70	June 15, 2011	NA									D
			TOTAL TONS	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**67.74**	**30.96**	

	Number of Shipments	Date of Shipment	Bill of Lading Number	Iron and Steel Sold to Grossman Steel (2)	Alton Materials (2)	Tons of Aluminum Metal Sold to Wallach Trading Company (2)	Stainless Steel Sold to Hi-Light International (2)	Motors Sold to Interco Trading Company (2)	Misc. Copper Sold to Wallach Trading Company (2)	Pot Slag Ladles sold to Harsco Metals (3) B	Misc. Motors and Crane Parts Sold to Casey Equipment (3) C	Misc, tank and clarifier sold to Tank Trailer Cleaning (3)
3rd Quarter 2011	71	August 1, 2011	49590	13.9								
	72	August 1, 2011	49591	10.04								
	73	August 5, 2011	49592	15.12								
	74	August 9, 2011	49593	11.64								
	75	August 12, 2011	HDMU 644809-9	---	---	---	19.20	---	---	---	---	---
	76	August 16, 2011	TCNU 740060-0	---	---	---	19.29	---	---	---	---	---
	77	August 19, 2011	49594	16.35								
	78	August 19, 2011	49595	13.48								
	79	August 25, 2011	HDMU 633298-2	---	---	---	19.36	---	---	---	---	---
	80	August 30, 2011	TNCU 860015-7	---	---	---	19.55	---	---	---	---	---
	81	August 30, 2011	49596	14.23								
	82	August 30, 2011	49597	6.61								
	83	September 9, 2011	49598	9.36								
	84	September 9, 2011	49599	7.08								
	85	September 9, 2011	49600	5.54								
	86	September 13, 2011	49601	5.63								
	87	September 13, 2011	49602	7.29								
	88	September 15, 2011	49603	13.92								
	89	September 15, 2011	49604	13.58								
	90	September 16, 2011	49606	11.88								
	91	September 16, 2011	49607	12.12								
	92	September 19, 2011	49608	12.77								
	93	September 19, 2011	49609	10.36								
	94	September 19, 2011	49610	13.75								
	95	September 19, 2011	49611	11.56								
	96	September 19, 2011	49612	11.54								
	97	September 20, 2011	49613	10.76								
	98	September 20, 2011	49614	11.73								
	99	September 20, 2011	49615	9.78								
	100	September 20, 2011	49616	12.84								
	101	September 21, 2011	HDMU 740565-1	---	---	---	19.63	---	---	---	---	---
	102	September 23, 2011	49617	13.12								
	103	September 23, 2011	49618	10.63								
	104	September 23, 2011	49619	7.33								

TABLE 3
Summary Of Historical Scrap Metal Shipments
3rd Quarter 2011 Progress Report
Estate Of Chemetco
Hartford, Illinois

Number of Shipments	Date of Shipment	Bill of Lading Number	Tons of Iron and Steel Sold to Grossman Steel (1)	Tons of Lead Metal Sold to Doe Run (1)	Tons of Aluminum Metal Sold to Wallach Trading Company (1)	Tons of Stainless Steel Sold to Hi-Light International (2)	Misc. Copper Sold to Wallach Trading Company (2)	Motors Sold to Interco Trading Company (2)	Pot Slag Ladles sold to Harsco Metals (3)	Misc. Motors and Crane Parts Sold to Casey Equipment (3)	Misc, tank and clarifier sold to Tank Trailer Cleaning (3)
105	September 27, 2011	49622	11.45								
106	September 27, 2011	49623	15.84								
107	September 27, 2011	49625	9.68								
108	September 27, 2011	49626	15.16								
109	September 27, 2011	49627	10.14								
110	September 27, 2011	49628	9.04								
111	September 27, 2011	49629	13.80								
112	September 27, 2011	49630	10.28								
113	September 27, 2011	49620	---	19.03	---	---	---	---	---	---	---
114	September 27, 2011	49621	---	16.71	---	---	---	---	---	---	---
115	September 27, 2011	49624	---	17.71	---	---	---	---	---	---	---
116	September 28, 2011	49631	12.77								
117	September 28, 2011	49632	12.63								
118	September 28, 2011	49633	10.96								
119	September 28, 2011	49634	8.07								
120	September 28, 2011	49635	13.06								
121	September 29, 2011	49636	11.16								
122	September 30, 2011	49637	13.47								
123	September 30, 2011	49638	15.78								
124	September 30, 2011	49639	13.30								
125	September 30, 2011	49640	11.74								
126	September 30, 2011	49641	12.15								
		TOTAL TONS	**554.41**	**53.46**	**0.00**	**97.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Note:
(1) Short Ton = 2000 lb
(2) Gross Ton = 2240 lb
(3) = Material sold under the Scrap Metal Work Plan
A= Aboveground Steel-Sand Storage Tank
B=Pot Slag Ladles (total of 3 ladles)
C= Crane equipment parts, electric motors, electric cabinets, resistor breakes, Crane Block parts
D= Two steel clarifier tanks
Steel Material sold as bulk and not as tonnage cost
NA = Not Applicable

APPENDIX C — Hazardous and Non-hazardous Waste Disposals

TABLE 4
Summary of Hazardous Waste Disposal Shipments
3rd Qtr 2011 Progress Report
Estate Of Chemetco
Hartford, Illinois

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
3rd Quarter 2011	1	Misc debris, decon pad, from Copper Furnace Solid Shipments	55 Gal Drum	NA	8/11/2011	Tri State Motor on EMA's behalf	380	0.190	EQ Michigan Disposal Waste Treatment Belleville, MI	004761793FLE

TABLE 5
Summary of Historical Hazarous Waste Disposal Shipments
3rd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
3rd Quarter 2010	No Shipments were made during the 3rd Qtr 2010									

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
	1	Miscellaneous Construction/Demolition Debris	40 Yard Bin	4029	11/10/2010	Mid-West Services and Heritage Environmental	16,707	8.35	Heritage Environmental, Indianapolis, IN.	000362943WAS
	2	Miscellaneous Construction/Demolition Debris	40 Yard Bin	4097	11/17/2010	Mid-West Services and Heritage Environmental	38,727	19.36	Heritage Environmental, Indianapolis, IN.	000362944WAS
	3	Miscellaneous Construction/Demolition Debris	40 Yard Bin	40006	12/7/2010	Mid-West Services and Heritage Environmental	12,187	6.09	Heritage Environmental, Indianapolis, IN.	000362945WAS
4th	4	Miscellaneous Construction/Demolition Debris	40 Yard Bin	40130	12/7/2010	Mid-West Services and Heritage Environmental	20,067	10.03	Heritage Environmental, Indianapolis, IN.	000362946WAS
Quarter	5	Miscellaneous Construction/Demolition Debris	40 Yard Bin	4025	12/9/2010	Mid-West Services and Heritage Environmental	17,987	8.99	Heritage Environmental, Indianapolis, IN.	000362947WAS
2010	6	Miscellaneous Construction/Demolition Debris	40 Yard Bin	4090	12/9/2010	Mid-West Services and Heritage Environmental	13,487	6.74	Heritage Environmental, Indianapolis, IN.	000362948WAS
	7	Miscellaneous Construction/Demolition Debris	40 Yard Bin	4039	12/13/2010	Mid-West Services and Heritage Environmental	15,607	7.80	Heritage Environmental, Indianapolis, IN.	000362949WAS
	8	Miscellaneous Construction/Demolition Debris	40 Yard Bin	40104	12/13/2010	Mid-West Services and Heritage Environmental	10,107	5.05	Heritage Environmental, Indianapolis, IN.	000362950WAS
	9	Miscellaneous Construction/Demolition Debris	40 Yard Bin	40124	12/15/2010	Mid-West Services and Heritage Environmental	26,667	13.33	Heritage Environmental, Indianapolis, IN.	000362955WAS
	10	Miscellaneous Construction/Demolition Debris	40 Yard Bin	40120	12/15/2010	Mid-West Services and Heritage Environmental	23,227	11.61	Heritage Environmental, Indianapolis, IN.	000362958WAS
						TOTAL	194,770	97.39		

TABLE 5
Summary of Historical Hazarous Waste Disposal Shipments
3rd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
	1	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20381	1027/2010	Mid-West Services and Heritage Environmental	35,720	17.86	Heritage Environmental, Indianapolis, IN.	000362951WAS
4th	2	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20213	12/14/2010	Mid-West Services and Heritage Environmental	37,940	18.97	Heritage Environmental, Indianapolis, IN.	000362952WAS
Quarter	3	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20559	12/14/2010	Mid-West Services and Heritage Environmental	40,420	20.21	Heritage Environmental, Indianapolis, IN.	000362954WAS
2010	4	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20484	12/14/2010	Mid-West Services and Heritage Environmental	35,980	17.99	Heritage Environmental, Indianapolis, IN.	000362953WAS
	5	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20458	12/15/2010	Mid-West Services and Heritage Environmental	34,880	17.44	Heritage Environmental, Indianapolis, IN.	000362956WAS
	6	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20384	12/15/2010	Mid-West Services and Heritage Environmental	27,980	13.99	Heritage Environmental, Indianapolis, IN.	000362957WAS
						TOTAL	212,920	106.46		

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
	1	Decon Water, sludge from Cupro Decon activities	55 Gal Drum	NA	10/27/2010	Tri State Motor on EMA's behalf	220	0.110	EQ Michigan Disposal Waste Treatment Bellville, Mi	003957277FLE
4th	2	Misc debris, decon pad, from Cupro Shipments	55 Gal Drum	NA	10/27/2010	Tri State Motor on EMA's behalf	75	0.038	EQ Michigan Disposal Waste Treatment Bellville, Mi	003957276FLE
Quarter	3	Decon Water, sludge from Pot Slag Decon activities	55 Gal Drum	NA	12/15/2010	Tri State Motor on EMA's behalf	220	0.110	EQ Michigan Disposal Waste Treatment Bellville, Mi	003957332FLE
2010	4	Misc debris, decon pad, from Pot Slag Shipments	55 Gal Drum	NA	12/15/2010	Tri State Motor on EMA's behalf	80	0.040	EQ Michigan Disposal Waste Treatment Bellville, Mi	003957331FLE
						Total Liquid	440	0.220		
						Total Solids	155	0.078		

TABLE 5
Summary of Historical Hazarous Waste Disposal Shipments
3rd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

	Number of Shipments	Description	No. Containers	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
1Qtr 2011	1	Misc corrosive acids, flammable liquids, petroleum distillates	17	Multiple overpacks, plastic and metal drums	NA	1/14/2011	Heritage Environmental	2,605	1.3025	Heritage Environmental, Liverpool, OH	000350627WAS
	2	Misc corrosive acids, flammable liquids, petroleum distillates	15	Multiple overpacks, plastic and metal drums	NA	1/14/2011	Heritage Environmental	3,826	1.913	Heritage Environmental, Indianapolis, IN.	000350631WAS
	3	Blasting Sand used for deconning stainless steel	3	Super Sacks	NA	3/16/2011	Tri State Motor on EMA's behalf	4,500	2.250	EQ Michigan Disposal Waste Treatment Belleville, MI	0044214831FLE
							Total Tons	---	5.4655		
							Total Pounds	10,931	---		

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
2nd Quarter 2011	No Shipments were made during the 2nd Qtr 2011									

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
3rd Quarter 2011	1	Misc debris, decon pad, from Copper Furnace Solid Shipments	55 Gal Drum	NA	8/11/2011	Tri State Motor on EMA's behalf	380	0.190	EQ Michigan Disposal Waste Treatment Belleville, MI	004761793FLE

APPENDIX D NPDES eDMR forms and Analytical Results

Month nning Avg	[redacted] 2 M [redacted] A[redacted] g [redacted] s. E[redacted] fflue [redacted] t S[redacted] ds
.92	23_ 1%
3.33	106[redacted].7%
.89	87_ 7%
7.58	117[redacted].2%
0288	11_ 5%
0843	4.[redacted]%
0112	7.[redacted]%
0100	[redacted] il
0756	15_ 1%
2769	13_ 8%
0896	44_ 8%
0976	9.[redacted]3%
0372	3.[redacted]%
0500	[redacted] il
0100	[redacted] il
2443	24_ 4%
.75	38_ 3%
.12	[redacted] il
04536	[redacted] il
.03	[redacted] il

APPENDIX D NPDES eDMR forms and Analytical Results

TABLE 7
Summary of NPDES Stormwater Data
3rd Quarter Progress Report
Estate of Chemetco
Hartford, Illinois

NPDES IL0025474, OUTFALL: #005 DATA TRACKING-30 Day Average
UPDATED 10-30-2011
(EXCEEDANCES OF STDS SHOWN IN SHADED CELLS AND BOLD FONT)

		NPDES #005 OUTFALL DISCHARGE SAMPLE ANALYSIS												
Parameter	Units	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	2011 YTD Average	35IAC304 Effluent Water Quality Stds (mg/l)	12 Month Running Avg	12 Mo Avg vs. Effluent Stds
BOD, 5-Day	mg/L	<5	**6**	**12**	<5	5	<5	13	8	9	7.56	**30**	6.92	23.1%
Oxygen Demand, Chemical	mg/L	**<50**	**<50**	**57**	**<50**	**<50**	**<50**	**61**	**67**	**55**	54.44	**50**	53.33	106.7%
pH		2.61	**9.04**	**9.49**	**8.63**	**9.24**	**8.79**	**9.59**	**9.26**	**9.37**	8.45	**9.0**	7.89	87.7%
Solids, Total Suspended	mg/L	<6	**24.00**	**28.00**	***17.00***	***16.00***	<6	12.00	**24.00**	**32.00**	18.33	**15**	17.58	117.2%
Arsenic, Total	mg/L	*<0.0250*	*<0.0250*	*0.0274*	*0.0378*	*0.0374*	*0.0286*	*0.0352*	*0.0287*	*<0.0250*	0.0300	**0.25**	0.0288	11.5%
Barium, Total	mg/L	0.0702	0.0808	0.0743	0.0777	0.0787	0.0664	0.0683	0.0618	0.1620	0.0822	**2.00**	0.0843	4.2%
Cadmium, Total	mg/L	0.0027	0.0073	0.0157	0.0411	0.0279	0.0127	<0.0020	<0.0020	0.0036	0.0128	**0.15**	0.0112	7.5%
Chromium, Total	mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0100	**1.00**	0.0100	nil
Copper, Total	mg/L	0.0207	0.0640	0.0841	0.2340	0.1480	0.0560	0.0703	0.0263	0.0474	0.0834	**0.50**	0.0756	15.1%
Iron, Total	mg/L	0.0578	0.3510	0.4790	0.7040	0.3460	0.1780	0.1820	0.0755	0.1690	0.2825	**2.00**	0.2769	13.8%
Lead, Total	mg/L	<0.0400	0.0969	0.1680	**0.2200**	0.1670	0.0536	0.0727	<0.0400	0.0412	0.0999	**0.20**	0.0896	44.8%
Manganese, Total	mg/L	0.0516	0.1660	0.1410	0.0985	0.0925	0.0808	0.0515	0.1460	0.1270	0.1061	**1.00**	0.0976	9.8%
Nickel, Total	mg/L	0.0187	0.0411	0.0644	0.0868	0.0411	0.0384	0.0176	0.0146	0.0193	0.0380	**1.00**	0.0372	3.7%
Selenium, Total	mg/L	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.0500	**None**	0.0500	nil
Silver, Total	mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0100	**0.10**	0.0100	nil
Zinc, Total	mg/L	0.0839	0.2300	0.3640	0.6720	0.4500	0.1560	0.0646	0.0357	0.1160	0.2414	**1.00**	0.2443	24.4%
Oil and Grease	mg/L	<5	<6	<5	<6	<5	<6	<6	<6	<6	5.67	**15**	5.75	38.3%
Nitrogen, Ammonia, Total	mg/L	0.140	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	**None**	0.12	nil
Avg Flow (MGD)	MGD												0.004536	nil
Avg flow (GPM)	GPM	1.00	12.00	1.10	13.50	1.40	2.50	0.20	0.00	0.00	3.52		2.03	nil
												Note: pH 6-9		

Note:
MGD = million gallons per day
GPM = Gallons per minute
Highlighted colored cells reflect 2011 results

PERMITTEE NAME / ADDRESS

NAME

ESTATE OF CHEMETCO-HARTFORD

ADDRESS

3574 CHEMETCO LANE

HARTFORD IL 62048

FACILITY

CHEMETCO-HARTFORD, ESTATE OF

LOCATION

3574 CHEMETCO LANE

HARTFORD IL 62048

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT(DMR)

IL0025747	005 0	Minor
PERMIT NUMBER	DISCHARGE NUMBER	06

MONITORING PERIOD			
	MO - DAY - YEAR		MO - DAY - YEAR
FROM	09 - 01 - 2011	TO	09 - 30 - 2011

Discharge Description

STORMWATER LAGOON

Discharge Type

EXO

*** No Discharge ☐ ***

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	Frequency of Analysis	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNIT			
BOD, 5-day, 20 deg. C 00310 1 0	SAMPLE MEASUREMENT	******	******		******	= 9	= 9		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Oxygen demand, chem. (high level) (COD) 00340 1 0	SAMPLE MEASUREMENT	******	******		******	= 55	= 55		1	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
pH 00400 1 0	SAMPLE MEASUREMENT	******	******		= 9.37	******	= 9.37		1	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	>= 6 MO MIN	******	<= 9 MO MAX	(12) SU		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Solids, total suspended 00530 1 0	SAMPLE MEASUREMENT	******	******		******	= 32	= 32		1	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									

COMMENTS:												
Arsenic, total (as As) 01002 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0250	< 0.0250		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Barium, total (as Ba) 01007 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.162	= 0.162		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Cadmium, total (as Cd) 01027 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0036	= 0.0036		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Chromium, total (as Cr) 01034 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Copper, total (as Cu) 01042 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0474	= 0.0474		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Iron, total (as Fe) 01045 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.169	= 0.169		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											

Lead, total (as Pb) 01051 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0412	= 0.0412		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Manganese, total (as Mn) 01055 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.127	= 0.127		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Nickel, total (as Ni) 01067 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0193	= 0.0193		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Silver, total (as Ag) 01077 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Zinc, total (as Zn) 01092 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.116	= 0.116		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Selenium, total (as Se) 01147 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0500	< 0.0500		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Oil and grease 03582 1 0	SAMPLE MEASUREMENT	******	******		******	< 6	< 6		0	01/30	GR

Effluent Gross		PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Nitrogen, ammonia, total (as NH3) 34726 1 0		SAMPLE MEASUREMENT	******	******		******	< 0.10	< 0.10		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Flow, in conduit or thru treatment plant 50050 1 0		SAMPLE MEASUREMENT	= 0.000001	= 0.000001		******	******	******		0	99/99	
Effluent Gross		PERMIT REQUIREMENT	30DA AVG	DAILY MX	(03) Mgal/d	******	******	******	******		99/99 - Continuous	-
NO DATA CODE		DESCRIPTION:										
COMMENTS:												

CONSIDERATION FOR FORM COMPLETION

SAMPLE FREQUENCY SHALL BE ONCE AMONTH WHEN DISCHARGING.

FORM COMMENTS

Parameter Code	Monitoring Location Code	Measurement Field	Status	Type
00400	1	Concentration Maximum	Acknowledged	Soft
Validation Check Description	Reported concentration maximum violates permit limit			
Parameter Description	pH			
Monitoring Location Description	Effluent Gross			
Validation Check Comment				

PRINCIPAL EXECUTIVE OFFICER

,

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under those statues may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Submitted By	Date
00012226 + CN=Jorge Y Garcia	10 - 11 - 2011

PERMITTEE NAME / ADDRESS

NAME

ESTATE OF CHEMETCO-HARTFORD

ADDRESS

3574 CHEMETCO LANE

HARTFORD IL 62048

FACILITY

CHEMETCO-HARTFORD, ESTATE OF

LOCATION

3574 CHEMETCO LANE

HARTFORD IL 62048

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT(DMR)

IL0025747	005 0	Minor
PERMIT NUMBER	**DISCHARGE NUMBER**	06

MONITORING PERIOD			
	MO - DAY - YEAR		MO - DAY - YEAR
FROM	08 - 01 - 2011	TO	08 - 31 - 2011

Discharge Description: STORMWATER LAGOON

Discharge Type: EXO

*** No Discharge ☐ ***

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	Frequency of Analysis	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNIT			
BOD, 5-day, 20 deg. C 00310 1 0	SAMPLE MEASUREMENT	******	******		******	= 8	= 8		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Oxygen demand, chem. (high level) (COD) 00340 1 0	SAMPLE MEASUREMENT	******	******		******	= 67	= 67		1	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
pH 00400 1 0	SAMPLE MEASUREMENT	******	******		= 9.26	******	= 9.26		1	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	>= 6 MO MIN	******	<= 9 MO MAX	(12) SU		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Solids, total suspended 00530 1 0	SAMPLE MEASUREMENT	******	******		******	= 24	= 24		1	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									

COMMENTS:												
Arsenic, total (as As) 01002 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0287	= 0.0287		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Barium, total (as Ba) 01007 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0618	= 0.0618		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Cadmium, total (as Cd) 01027 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0020	< 0.0020		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Chromium, total (as Cr) 01034 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Copper, total (as Cu) 01042 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0263	= 0.0263		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Iron, total (as Fe) 01045 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0755	= 0.0755		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											

Lead, total (as Pb) 01051 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0400	< 0.0400		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Manganese, total (as Mn) 01055 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.146	= 0.146		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Nickel, total (as Ni) 01067 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0146	= 0.0146		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Silver, total (as Ag) 01077 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Zinc, total (as Zn) 01092 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0357	= 0.0357		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Selenium, total (as Se) 01147 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0500	< 0.0500		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Oil and grease 03582 1 0	SAMPLE MEASUREMENT	******	******		******	< 6	< 6		0	01/30	GR

Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Nitrogen, ammonia, total (as NH3) 34726 1 0	SAMPLE MEASUREMENT	******	******		******	< .10	< .10		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Flow, in conduit or thru treatment plant 50050 1 0	SAMPLE MEASUREMENT	= 0.000001	= 0.000001		******	******	******		0	99/99	
Effluent Gross	PERMIT REQUIREMENT	30DA AVG	DAILY MX	(03) Mgal/d	******	******	******	******		99/99 - Continuous	-
NO DATA CODE		DESCRIPTION:										
COMMENTS:												

CONSIDERATION FOR FORM COMPLETION

SAMPLE FREQUENCY SHALL BE ONCE AMONTH WHEN DISCHARGING.

FORM COMMENTS

No flow occured, No Discharge

Parameter Code	Monitoring Location Code	Measurement Field	Status	Type
00400	1	Concentration Maximum	Acknowledged	Soft
Validation Check Description	Reported concentration maximum violates permit limit			
Parameter Description	pH			
Monitoring Location Description	Effluent Gross			
Validation Check Comment				

PRINCIPAL EXECUTIVE OFFICER

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Submitted By	Date
00012226 + CN=Jorge Y Garcia	09 - 23 - 2011

PERMITTEE NAME / ADDRESS

NAME

ESTATE OF CHEMETCO-HARTFORD

ADDRESS

3574 CHEMETCO LANE

HARTFORD IL 62048

FACILITY

CHEMETCO-HARTFORD, ESTATE OF

LOCATION

3574 CHEMETCO LANE

HARTFORD IL 62048

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT(DMR)

IL0025747	005 0	Minor
PERMIT NUMBER	**DISCHARGE NUMBER**	06

MONITORING PERIOD			
	MO - DAY - YEAR		MO - DAY - YEAR
FROM	07 - 01 - 2011	TO	07 - 31 - 2011

Discharge Description: STORMWATER LAGOON

Discharge Type: EXO

*** No Discharge ☐ ***

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	Frequency of Analysis	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNIT			
BOD, 5-day, 20 deg. C 00310 1 0	SAMPLE MEASUREMENT	******	******		******	= 13	= 13		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Oxygen demand, chem. (high level) (COD) 00340 1 0	SAMPLE MEASUREMENT	******	******		******	= 61	= 61		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
pH 00400 1 0	SAMPLE MEASUREMENT	******	******		= 9.59	******	= 9.59		1	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	>= 6 MO MIN	******	<= 9 MO MAX	(12) SU		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Solids, total suspended 00530 1 0	SAMPLE MEASUREMENT	******	******		******	= 12	= 12		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									

COMMENTS:											
Arsenic, total (as As) 01002 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0352	= 0.0352		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Barium, total (as Ba) 01007 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0683	= 0.0683		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Cadmium, total (as Cd) 01027 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0020	< 0.0020		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Chromium, total (as Cr) 01034 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Copper, total (as Cu) 01042 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0703	= 0.0703		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Iron, total (as Fe) 01045 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.182	= 0.182		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											

Lead, total (as Pb) 01051 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0727	= 0.0727		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Manganese, total (as Mn) 01055 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0515	= 0.0515		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Nickel, total (as Ni) 01067 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0176	= 0.0176		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Silver, total (as Ag) 01077 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Zinc, total (as Zn) 01092 1 0	SAMPLE MEASUREMENT	******	******		******	= 0.0646	= 0.0646		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Selenium, total (as Se) 01147 1 0	SAMPLE MEASUREMENT	******	******		******	< 0.0500	< 0.0500		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:									
COMMENTS:											
Oil and grease 03582 1 0	SAMPLE MEASUREMENT	******	******		******	< 6	< 6		0	01/01	GR

Effluent Gross		PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Nitrogen, ammonia, total (as NH3) 34726 1 0		SAMPLE MEASUREMENT	******	******		******	< 0.10	< 0.10		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	******	******	******	******	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Flow, in conduit or thru treatment plant 50050 1 0		SAMPLE MEASUREMENT	= 0.000288	= 0.000288		******	******	******		0	99/99	
Effluent Gross		PERMIT REQUIREMENT	30DA AVG	DAILY MX	(03) Mgal/d	******	******	******	******		99/99 - Continuous	-
NO DATA CODE		DESCRIPTION:										
COMMENTS:												

CONSIDERATION FOR FORM COMPLETION

SAMPLE FREQUENCY SHALL BE ONCE AMONTH WHEN DISCHARGING.

FORM COMMENTS

Parameter Code	Monitoring Location Code	Measurement Field	Status	Type
00400	1	Concentration Maximum	Acknowledged	Soft
Validation Check Description	Reported concentration maximum violates permit limit			
Parameter Description	pH			
Monitoring Location Description	Effluent Gross			
Validation Check Comment				

PRINCIPAL EXECUTIVE OFFICER

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under those statues may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Submitted By	Date
00012226 + CN=Jorge Y Garcia	08 - 19 - 2011

October 05, 2011

Jorge Garcia
Chemetco
3754 Chemetco Lane
Hartford, IL 62048
TEL: (618)254-4381
FAX: (618)254-0138

RE: NPDES #005 **WorkOrder:** 11091270

Dear Jorge Garcia:

TEKLAB, INC received 1 sample on 9/30/2011 10:35:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Marvin L. Darling II

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com

Client: Chemetco

Work Order: 11091270

Client Project: NPDES #005

Report Date: 05-Oct-11

Abbr Definition

CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
DNI	Did not ignite
DUP	Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MB	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# - Unknown hydrocarbon	B - Analyte detected in associated Method Blank
E - Value above quantitation range	H - Holding times exceeded
M - Manual Integration used to determine area response	ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits	S - Spike Recovery outside recovery limits
X - Value exceeds Maximum Contaminant Level	

Client: Chemetco

Work Order: 11091270

Client Project: NPDES #005

Report Date: 05-Oct-11

Cooler Receipt Temp: 3.4 °C

Locations and Accreditations

Collinsville		Springfield		Kansas City	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	**Address**	3920 Pintail Dr Springfield, IL 62711-9415	**Address**	8421 Nieman Road Lenexa, KS 66214
Phone	(618) 344-1004	**Phone**	(217) 698-1004	**Phone**	(913) 541-1998
Fax	(618) 344-1005	**Fax**	(217) 698-1005	**Fax**	(913) 541-1998
Email	jhriley@teklabinc.com	**Email**	kmcclain@teklabinc.com	**Email**	dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2012	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2012	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2012	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2012	Springfield
Arkansas	ADEQ	88-0966		3/14/2012	Collinsville
Illinois	IDPH	17584		4/30/2012	Collinsville
Kentucky	UST	0073		5/26/2012	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2012	Collinsville

Client: Chemetco
Work Order: 11091270

Client Project: NPDES #005
Report Date: 05-Oct-11

Lab ID: 11091270-001
Client Sample ID: NPDES #005

Matrix: AQUEOUS
Collection Date: 09/30/2011 8:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	10/04/2011 7:50	R155045
EPA 600 350.1 R2.0 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**< 0.10**	mg/L	1	10/03/2011 13:09	R154990
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		**55**	mg/L	1	10/04/2011 9:55	R155018
STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		**9.37**		1	10/04/2011 12:05	R155031
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	12		**32**	mg/L	2	09/30/2011 15:17	R154952
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		**9**	mg/L	1	09/30/2011 15:22	71643
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	10/04/2011 5:40	71685
Barium	NELAP	0.0050		**0.162**	mg/L	1	10/04/2011 5:40	71685
Cadmium	NELAP	0.0020		**0.0036**	mg/L	1	10/04/2011 5:40	71685
Chromium	NELAP	0.0100		**< 0.0100**	mg/L	1	10/04/2011 5:40	71685
Copper	NELAP	0.0100		**0.0474**	mg/L	1	10/04/2011 5:40	71685
Iron	NELAP	0.0200		**0.169**	mg/L	1	10/04/2011 5:40	71685
Lead	NELAP	0.0400		**0.0412**	mg/L	1	10/04/2011 5:40	71685
Manganese	NELAP	0.0050		**0.127**	mg/L	1	10/04/2011 5:40	71685
Nickel	NELAP	0.0100		**0.0193**	mg/L	1	10/04/2011 5:40	71685
Selenium	NELAP	0.0500		**< 0.0500**	mg/L	1	10/04/2011 5:40	71685
Silver	NELAP	0.0100		**< 0.0100**	mg/L	1	10/04/2011 5:40	71685
Zinc	NELAP	0.0100		**0.116**	mg/L	1	10/04/2011 5:40	71685

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Chemetco
Client Project: NPDES #005

Work Order: 11091270
Report Date: 05-Oct-11

Carrier: Dawn Brantley

Completed by: Marvin L. Darling II
On: 30-Sep-11
Marvin L. Darling

Received By: BSJ

Reviewed by: Elizabeth A. Hurley
On: 30-Sep-11
Elizabeth A. Hurley

Pages to follow: Chain of custody [1] Extra pages included [0]

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp ℃	***3.4***	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☐	Lab ☑	NA ☐			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1℃ - 6.0℃, or when samples are received on ice the same day as collected.

Water - vials have zero headspace?	Yes ☐	No ☐	No VOA vials	☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers	☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐		

Any No responses must be detailed below or on the COC.

Print Form

Teklab Chain of Custody

Pg. 1 of 1 Workorder 1109170

5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618)344-1004 ~ Fax:(618)344-1005

Chemetco

3754 Chemetco Lane

Hartford | IL | 62048

Project: NPDES #005

Are the samples chilled? (X) Yes ( ) No with: ( ) Ice (X) Blue ice

Preserved in ~~( ) Lab~~ (X) Field

Cooler Temp 3.4°C Sampler Jorge Garcia

Comments: eMail: jgarcia@chemetcoestate.com

Metals: As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Se, Ag, and Zn

Contact Jorge Garcia eMail see comments Phone (618) 254-4381 Requested Due Date NTAT Billing/PO

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	BOD	TSS	pH	Metals	Oil & Grease	Ammonia	COD					
1109170 -001	NPDES #005	9-30-11 850	Other	Aqueous	X	X	X	X	X	X	X					
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												

Relinquished By *	Date/Time	Received By	Date/Time
Jorge J Garcia	9-30-11 1015		9/30/11 1015
	9/30/11 1035		09/30/11 1035

* The individual signing this agreement on behalf of client acknowledges that they have read and understand the terms of this agreement and that they have the authority to sign on behalf of client.

September 06, 2011

Jorge Garcia
Chemetco
3754 Chemetco Lane
Hartford, IL 62048
TEL: (618)254-4381
FAX: (618)254-0138

RE: NPDES #005

WorkOrder: 11081298

Dear Jorge Garcia:

TEKLAB, INC received 1 sample on 8/31/2011 10:29:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley

Elizabeth A. Hurley
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com

Client: Chemetco

Work Order: 11081298

Client Project: NPDES #005

Report Date: 06-Sep-11

Abbr Definition

CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
DNI	Did not ignite
DUP	Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MB	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# - Unknown hydrocarbon	B - Analyte detected in associated Method Blank
E - Value above quantitation range	H - Holding times exceeded
M - Manual Integration used to determine area response	ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits	S - Spike Recovery outside recovery limits
X - Value exceeds Maximum Contaminant Level	

Client: Chemetco

Work Order: 11081298

Client Project: NPDES #005

Report Date: 06-Sep-11

Cooler Receipt Temp: 1.0 °C

Locations and Accreditations

Collinsville		Springfield		Kansas City	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	Address	3920 Pintail Dr Springfield, IL 62711-9415	Address	8421 Nieman Road Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	kmcclain@teklabinc.com	Email	dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2012	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2012	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2012	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2012	Springfield
Arkansas	ADEQ	88-0966		3/14/2012	Collinsville
Illinois	IDPH	17584		4/30/2012	Collinsville
Kentucky	UST	0073		5/26/2012	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2012	Collinsville

Client: Chemetco
Work Order: 11081298

Client Project: NPDES #005
Report Date: 06-Sep-11

Lab ID: 11081298-001
Client Sample ID: NPDES #005

Matrix: AQUEOUS
Collection Date: 08/31/2011 9:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	09/01/2011 8:50	R153950
EPA 600 350.1 R2.0 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**< 0.10**	mg/L	1	08/31/2011 15:07	R153857
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		**67**	mg/L	1	08/31/2011 14:25	R153875
STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		**9.26**		1	09/01/2011 11:32	R153916
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		**24**	mg/L	1	08/31/2011 12:39	R153868
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		**8**	mg/L	1	08/31/2011 14:01	70905
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0287**	mg/L	1	09/02/2011 5:25	70900
Barium	NELAP	0.0050		**0.0618**	mg/L	1	09/02/2011 5:25	70900
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	09/02/2011 5:25	70900
Chromium	NELAP	0.0100		**< 0.0100**	mg/L	1	09/02/2011 5:25	70900
Copper	NELAP	0.0100		**0.0263**	mg/L	1	09/02/2011 5:25	70900
Iron	NELAP	0.0200		**0.0755**	mg/L	1	09/02/2011 5:25	70900
Lead	NELAP	0.0400		**< 0.0400**	mg/L	1	09/02/2011 5:25	70900
Manganese	NELAP	0.0050		**0.146**	mg/L	1	09/02/2011 5:25	70900
Nickel	NELAP	0.0100		**0.0146**	mg/L	1	09/02/2011 5:25	70900
Selenium	NELAP	0.0500		**< 0.0500**	mg/L	1	09/02/2011 5:25	70900
Silver	NELAP	0.0100		**< 0.0100**	mg/L	1	09/02/2011 5:25	70900
Zinc	NELAP	0.0100		**0.0357**	mg/L	1	09/02/2011 5:25	70900

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Chemetco

Work Order: 11081298

Client Project: NPDES #005

Report Date: 06-Sep-11

Carrier: Dawn Brantley

Received By: TWM

Completed by: Marvin L. Darling II
On: 31-Aug-11
Marvin L. Darling

Reviewed by: Elizabeth A. Hurley
On: 31-Aug-11
Elizabeth A. Hurley

Pages to follow: Chain of custody [1] Extra pages included [0]

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	1.0
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☐	Lab ☑	NA ☐		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water - vials have zero headspace?	Yes ☐	No ☐	No VOA vials	☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers	☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐		

Any No responses must be detailed below or on the COC.

Print Form

Teklab Chain of Custody

Pg. 1 of 1 Workorder 11081248

5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618)344-1004 ~ Fax:(618)344-1005

Chemetco

3754 Chemetco Lane

Hartford | IL | 62048

Project: NPDES #005

Are the samples chilled? (x) Yes ( ) No with: (x) Ice ( ) Blue ice

Preserved in ( ) Lab (x) Field

MLDT 8/31/11

Cooler Temp 1.0 Sampler Jorge Garcia

Comments: eMail: jgarcia@chemetcoestate.com

Metals: As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Se, Ag, and Zn

Contact Jorge Garcia eMail see comments Phone (618) 254-4381 Requested Due Date NTAT Billing/PO

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	BOD	TSS	pH	Metals	Oil & Grease	Ammonia	COD					
11081248 -001	NPDES #005	8-31-11 900	Other	Aqueous	X	X	X	X	X	X	X					
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												

Relinquished By *	Date/Time	Received By	Date/Time
Jorge Garcia	8-31-11 1015		8/31/11 1010
	8/31/11 1029		8/31/11 1029

* The individual signing this agreement on behalf of client acknowledges that they have read and understand the terms of this agreement and that they have the authority to sign on behalf of client.

August 09, 2011

Jorge Garcia
Chemetco
3754 Chemetco Lane
Hartford, IL 62048
TEL: (618)254-4381
FAX: (618)254-0138

RE: NPDES #005 **WorkOrder:** 11080097

Dear Jorge Garcia:

TEKLAB, INC received 1 sample on 8/2/2011 11:08:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com

Client: Chemetco

Work Order: 11080097

Client Project: NPDES #005

Report Date: 09-Aug-11

Abbr Definition

CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
DNI	Did not ignite
DUP	Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MB	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# - Unknown hydrocarbon	B - Analyte detected in associated Method Blank
E - Value above quantitation range	H - Holding times exceeded
M - Manual Integration used to determine area response	ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits	S - Spike Recovery outside recovery limits
X - Value exceeds Maximum Contaminant Level	

Client: Chemetco

Client Project: NPDES #005

Work Order: 11080097

Report Date: 09-Aug-11

Cooler Receipt Temp: 26.4 °C

Locations and Accreditations

Collinsville		Springfield		Kansas City	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	Address	3920 Pintail Dr Springfield, IL 62711-9415	Address	8421 Nieman Road Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	kmcclain@teklabinc.com	Email	dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2012	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2012	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2012	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2012	Springfield
Arkansas	ADEQ	88-0966		3/14/2012	Collinsville
Illinois	IDPH	17584		4/30/2012	Collinsville
Kentucky	UST	0073		5/26/2012	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2011	Collinsville

Client: Chemetco
Work Order: 11080097
Client Project: NPDES #005
Report Date: 09-Aug-11
Lab ID: 11080097-001
Client Sample ID: NPDES #005
Matrix: AQUEOUS
Collection Date: 08/02/2011 10:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664A								
Hexane Extractable Material	NELAP	6		**< 6**	mg/L	1	08/03/2011 11:07	R152678
EPA 600 350.1 R2.0 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**< 0.10**	mg/L	1	08/03/2011 10:31	R152744
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		**61**	mg/L	1	08/04/2011 9:43	R152756
STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		**9.59**		1	08/02/2011 18:28	R152664
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		**12**	mg/L	1	08/03/2011 11:00	R152712
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		**13**	mg/L	1	08/03/2011 14:50	70129
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0352**	mg/L	1	08/03/2011 17:03	70085
Barium	NELAP	0.0050		**0.0683**	mg/L	1	08/03/2011 17:03	70085
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/03/2011 17:03	70085
Chromium	NELAP	0.0100		**< 0.0100**	mg/L	1	08/03/2011 17:03	70085
Copper	NELAP	0.0100		**0.0703**	mg/L	1	08/03/2011 17:03	70085
Iron	NELAP	0.0200		**0.182**	mg/L	1	08/03/2011 17:03	70085
Lead	NELAP	0.0400		**0.0727**	mg/L	1	08/03/2011 17:03	70085
Manganese	NELAP	0.0050		**0.0515**	mg/L	1	08/03/2011 17:03	70085
Nickel	NELAP	0.0100		**0.0176**	mg/L	1	08/03/2011 17:03	70085
Selenium	NELAP	0.0500		**< 0.0500**	mg/L	1	08/03/2011 17:03	70085
Silver	NELAP	0.0100		**< 0.0100**	mg/L	1	08/08/2011 15:56	70217
Zinc	NELAP	0.0100		**0.0646**	mg/L	1	08/03/2011 17:03	70085

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Chemetco
Client Project: NPDES #005

Work Order: 11080097
Report Date: 09-Aug-11

Carrier: Dawn Brantley

Completed by: Timothy W. Mathis
On: 02-Aug-11

Received By: TWM

Reviewed by: Elizabeth A. Hurley
On: 02-Aug-11

Pages to follow: Chain of custody [1] Extra pages included [0]

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	26.4	
Type of thermal preservation?	None ☐	Ice ☐	Blue Ice ☑	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water - vials have zero headspace?	Yes ☐	No ☐	No VOA vials	☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers	☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐		

Any No responses must be detailed below or on the COC.

Print Form

Teklab Chain of Custody

Pg. 1 of 1 Workorder 11080097

5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618)344-1004 ~ Fax:(618)344-1005

Chemetco

3754 Chemetco Lane

Hartford | IL | 62048

Project: NPDES #005

Are the samples chilled? Yes / No with: Ice / Blue ice (marked: Yes, Blue ice)

Preserved in Lab / Field (marked: Field) MLO I 8/2/11

Cooler Temp 26.4 Sampler Jorge Garcia

Comments:
eMail: jgarcia@chemetcoestate.com
Metals: As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Se, Ag, and Zn

Contact Jorge Garcia eMail see comments Phone (618) 254-4381 Requested Due Date NTAT Billing/PO

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	BOD	TSS	pH	Metals	Oil & Grease	Ammonia	COD					
11080097 001	NPDES #005	8-2-11 1035	Other	Aqueous	X	X	X	X	X	X	X					
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												

Relinquished By *	Date/Time	Received By	Date/Time
Jorge Garcia (signature)	8-2-11 1050	(signature)	8/2/11 1050
(signature)	8/2/11 1108	(signature)	8-2-11 1108

* The individual signing this agreement on behalf of client acknowledges that they have read and understand the terms of this agreement and that they have the authority to sign on behalf of client.

APPENDIX E Monthly Security Action Item Reports

Estate of Chemetco, Inc.

3754 Chemetco Lane • Hartford, IL 62048
Office: (618) 254-4381 x372 •Fax: (618) 254-0138
jgarcia@chemetcoestate.com

July 25, 2011

Michelle Kerr
Attn: SR-6J
Remedial Project Manager
US EPA Region 5 Superfund Division
77 W. Jackson Blvd. SRF 6J
Chicago, IL 60604

Re: Security Plan and Monthly Security Action Items Letter Report

Dear Mrs. Kerr:

On behalf of the Estate of Chemetco, Inc. (Estate), I am submitting the July Security Plan and Monthly Security Action Items letter report. The previous letter report was submitted on June 30, 2011.

On Thursday July 21, 2011, he Estate received a draft work schedule outlining the completion of the demolition activities. AIS indicated that the schedule would be finalized in the next few days. Once the work schedule is finalized, the Estate will incorporate the revised work schedule and incorporate the changes to the Estate's schedule to identify estimated time to restore the security action items that are part of the "Security Action Report". The next monthly report is due by August 31, 2011.

The Status of Action Items will be updated and continue to be issued on a monthly basis until all security related items have been resolved. If you have any questions and/or comments, please feel free to contact me at (618) 254-4381 x372, or my cell phone at (314) 348-8211.

Sincerely,
ESTATE OF CHEMETCO, INC.

Jorge Y. Garcia PG
Project Coordinator/EH&S Manager

CC: Pamela Molitor, USEPA
Donald M. Samson, Trustee
Penni S. Livingston, Livingston Law Firm
Elliott Stegin, IAD-Paradigm
Chris Cahnovsky, IEPA-Collinsville
Erin Rednour, IEPA-Springfield
James Morgan, IAGO

Estate of Chemetco, Inc.

3754 Chemetco Lane • Hartford, IL 62048
Office: (618) 254-4381 x372 •Fax: (618) 254-0138
jgarcia@chemetcoestate.com

August 31, 2011

Michelle Kerr
Attn: SR-6J
Remedial Project Manager
US EPA Region 5 Superfund Division
77 W. Jackson Blvd. SRF 6J
Chicago, IL 60604

Re: Revised Schedule to Restore Security Plan Measures at the Estate of Chemetco Facility

Dear Mrs. Kerr:

On behalf of the Estate of Chemetco, Inc. (Estate), I am submitting a revised letter. schedule (see enclosed attachment) to restore the security conditions as part of the "Security Plan and Action Items" monthly reports.

As you're aware, American Integrated Services (AIS) resumed demolition activities at the Chemetco Site on July 15, 2011 of the 3rd Quarter 2011. According to AIS, the estimated time to complete the demolition activities should be approximately 3 to 4 months.

The enclosed schedule summarizes the action items necessary to restore the security conditions that were in place prior to the beginning of demolition activities and prior to cutting electric power off. To date, the Site is operating during working hours with the support of temporary/portable generators.

The Estate plan to address the security items as follows:

Demolition Activities
Demolition Activities should be completed in approximately 3-4 months.

Site Power
Power was shut off and disconnected in anticipation of demolishing the foundry building. Currently power is temporarily provided by the use of generators. These generators run on diesel and currently are being used during normal working hours or longer when needed on a limited basis due to the high cost of diesel fuel.

Power will continue to be shut down until all the demolition activities are completed.
After completion of demolition activities, power will be restored, and conduit electrical lines will need to be rewired for the future process units located in the tank house and maintenance shop building.

Estimated time to complete rewiring and power restoration is approximately 2-3 months after completion of demolition activities under the approved Demolition Plan.

Lighting
The existing lights that were in place prior to demolition will continue to be used. It is possible that location of lights may need to be adjusted and/or rewired.

Estimated time to tie existing wiring to new power source (transformer) is approximately1-2 weeks.

Gates
Existing gates and signage are properly set in place. No changes and/or modifications are required.

Security Cameras
The existing cameras that were in place prior to demolition will be used. The security cameras will require tie in to new power and trouble shooting to ensure they are working properly after being down for a period oftime. Prior to power shutdown, a couple of security cameras were not functioning properly.

Estimated time to tie to new power source (transformer) and troubleshoot cameras is approximately 2-4 weeks.

Alarm System
No changes were made to the existing alarm system. No changes and/or modifications are required.

Vegetation Perimeter Up keeping
No changes were made to up keeping of vegetation perimeter. Up keeping of vegetation will continue periodically as needed and/or warranted. No changes and/or modifications are required.

On-Site Security
When the electric power was shut off, the Estate increased on-site security by adding an additional security guard and an additional shift to compensate for not having available the use of security cameras and lighting. Upon restoring electric power and above items, the Estate plans to restore site security to one shift and one security guard.

Estimated time to switch back from two shifts and two security guards to a single shift and one security guard is approximately 1-2 days.

Coordination with local police/ emergency personnel
Continue submitting Contingency plans to local police and emergency personnel on an annual basis. No changes required at this time.

The Status of Action Items will be updated and continue to be issued on a monthly basis until all security related items have been resolved. If you have any questions and/or comments, please feel free to contact me at (618) 254-4381 x372, or my cell phone at (314) 348-8211.

Sincerely,
ESTATE OF CHEMETCO, INC.

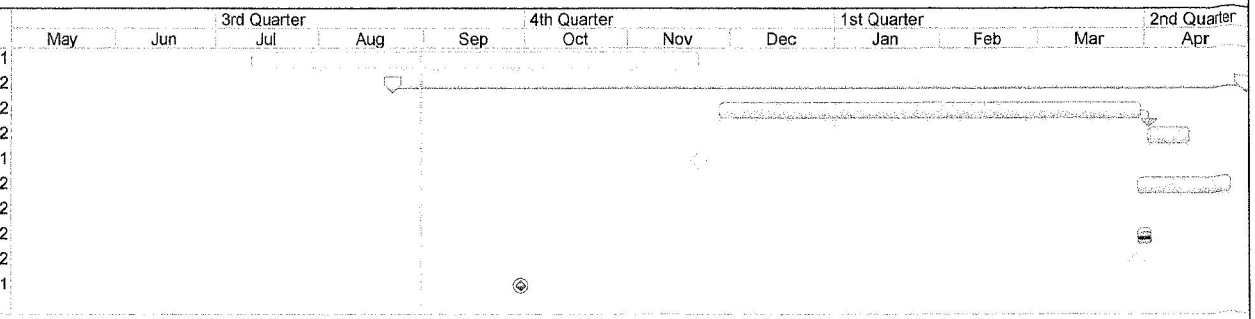
Jorge Y. Garcia PG
Project Coordinator/EH&S Manager

Attachment

CC: Donald M. Samson, Trustee
Penni S. Livingston, Livingston Law Firm
Elliott Stegin, IAD/Paradigm
Chris Cahnovsky, IEPA-Collinsville
Erin Rednour, IEPA-Springfield
James Morgan, IAGO

Proposed Schedule to Restore Security Plan Measures at the Estate of Chemetco Facility

ID	Task Name	Duration	Start	Finish
1	Demolition Activities	95 days	Tue 7/12/11	Mon 11/21/11
2	Site Security	180 days	Tue 8/23/11	Mon 4/30/12
3	Restore Power	90 days	Mon 11/28/11	Fri 3/30/12
4	Lighting	10 days	Mon 4/2/12	Fri 4/13/12
5	Gates	1 day	Tue 11/22/11	Tue 11/22/11
6	Re-establish Security Cameras	20 days	Fri 3/30/12	Thu 4/26/12
7	Vegetation Up keeping	186 days	Fri 7/15/11	Fri 3/30/12
8	On site Security	2 days	Fri 3/30/12	Mon 4/2/12
9	Alarm System	1 day	Fri 3/30/12	Fri 3/30/12
10	Coordination with local police and emergency personnel	1 day	Fri 9/30/11	Fri 9/30/11



Estate of Chemetco
Date: Wed 8/31/11

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

Estate of Chemetco, Inc.

3754 Chemetco Lane • Hartford, IL 62048
Office: (618) 254-4381 x372 •Fax: (618) 254-0138
jgarcia@chemetcoestate.com

October 3, 2011

Michelle Kerr
Attn: SR-6J
Remedial Project Manager
US EPA Region 5 Superfund Division
77 W. Jackson Blvd. SRF 6J
Chicago, IL 60604

Re: Security Plan and Monthly Security Action Items Letter Report

Dear Mrs. Kerr:

On behalf of the Estate of Chemetco, Inc. (Estate), I am submitting the September Security Plan and Monthly Security Action Items letter report. The previous letter report was submitted on August 31, 2011.

As you're well aware off, American Integrated Services (AIS) removed the overhead Manifold from the Foundry Building the week of September 12, 2011. Since then, the Foundry Building is being dismantled and we're having scrap metal containers being dropped off and picked up, as such, the gate remained open. On Tuesday September 27, 2011 we had a pickup truck and two men driving in through the gates after the Estate explicitly told them that onsite entry was off limits. As the Estate personnel chased the tuck down, it took the truck license plate number; at that point the truck quickly exited through the gate and left the site.

In order to prevent future recurrences, the gate will be kept closed and only opened to allow trucks to come in. Because the containers are being "live" loaded, the gate will be guarded until the truck comes out. At that point, the gate will be locked until the next truck arrives. There are no further action items to report. The next monthly report is due by October 31, 2011.

The Status of Action Items will be updated and continue to be issued on a monthly basis until all security related items have been resolved. If you have any questions and/or comments, please feel free to contact me at (618) 254-4381 x372, or my cell phone at (314) 348-8211.

Sincerely,
ESTATE OF CHEMETCO, INC.

Jorge Y. Garcia PG
Project Coordinator/EH&S Manager

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